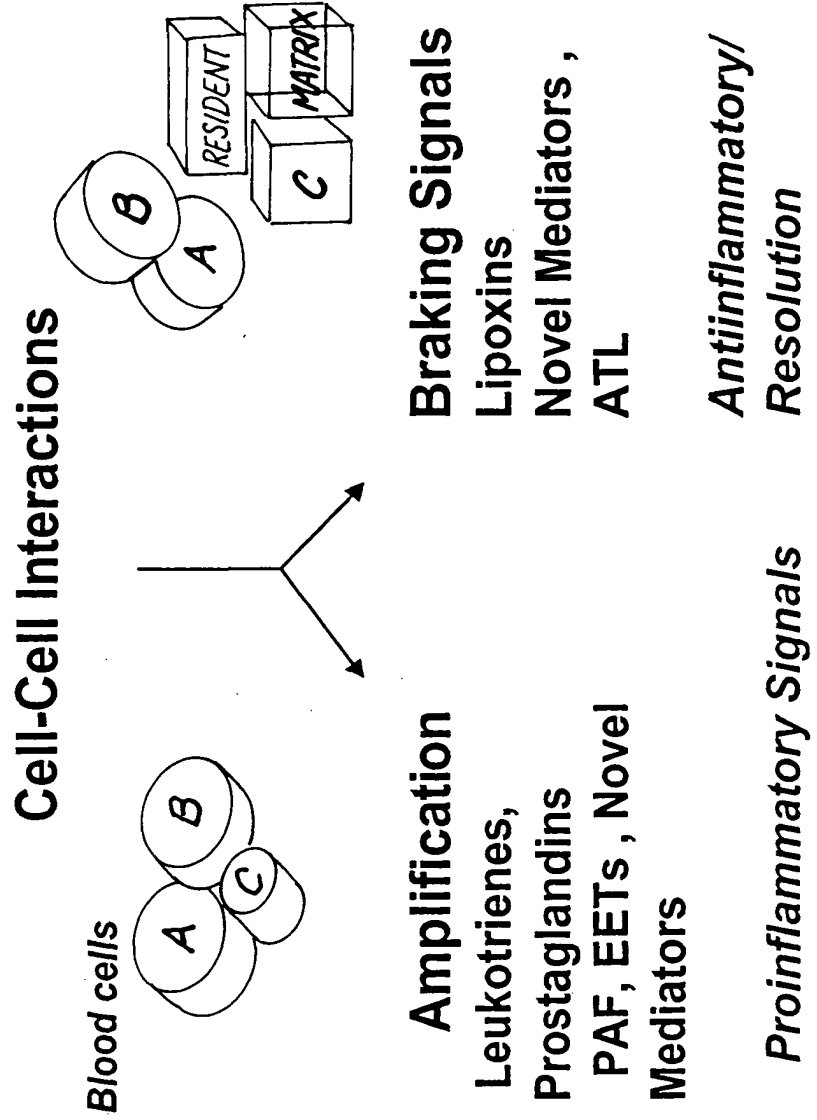
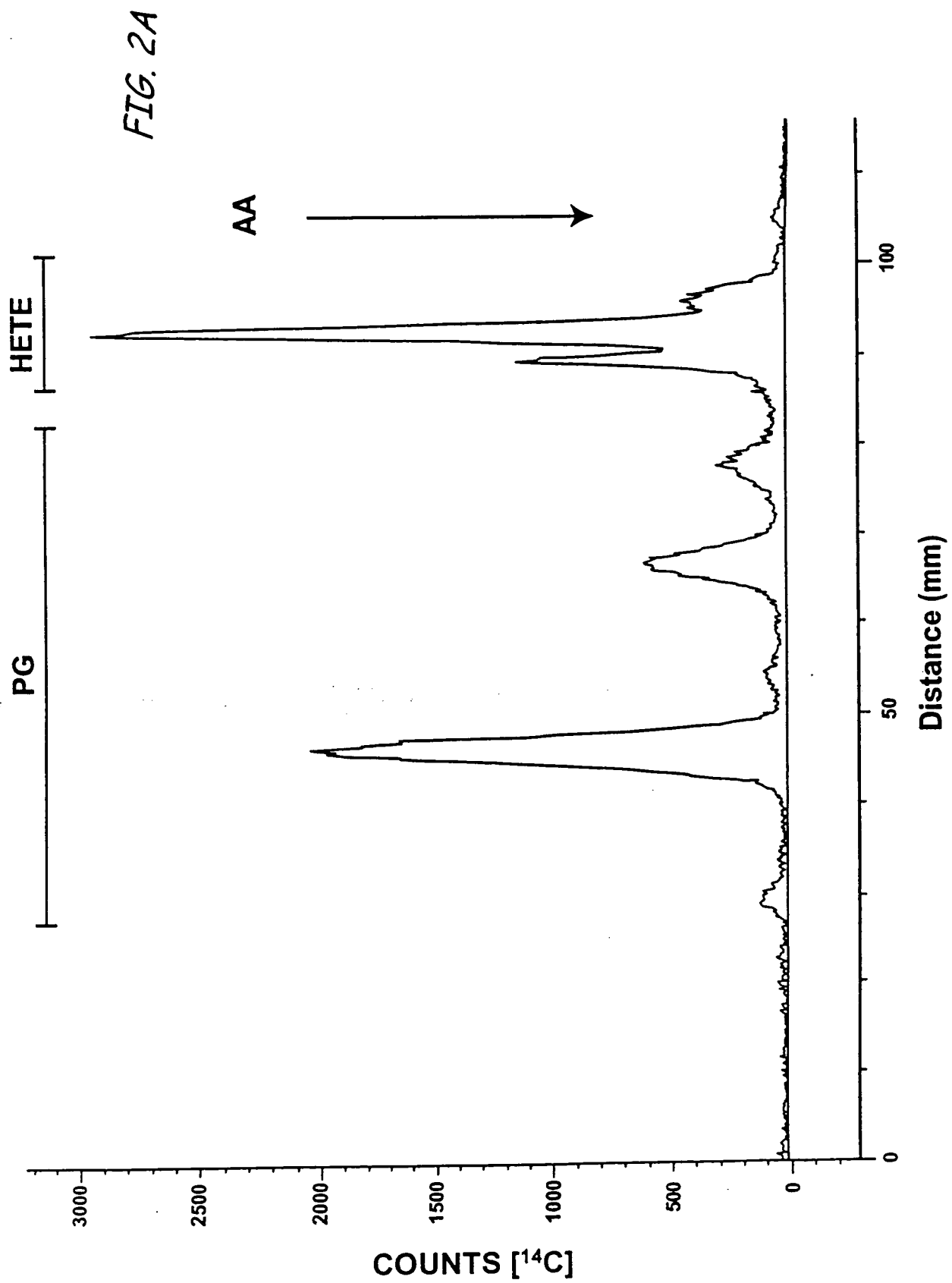
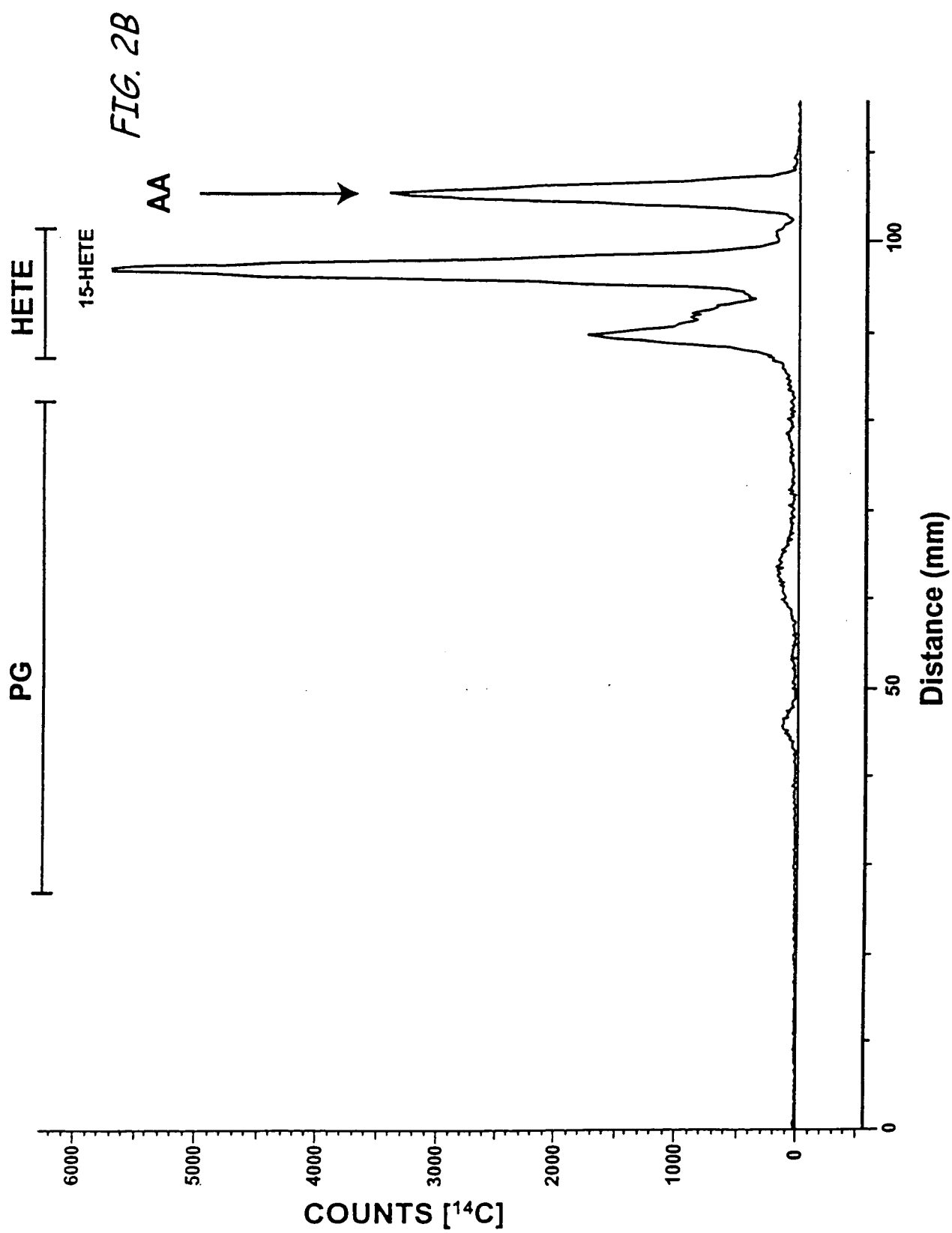


FIG. 1

# Transcellular LM Biosynthesis







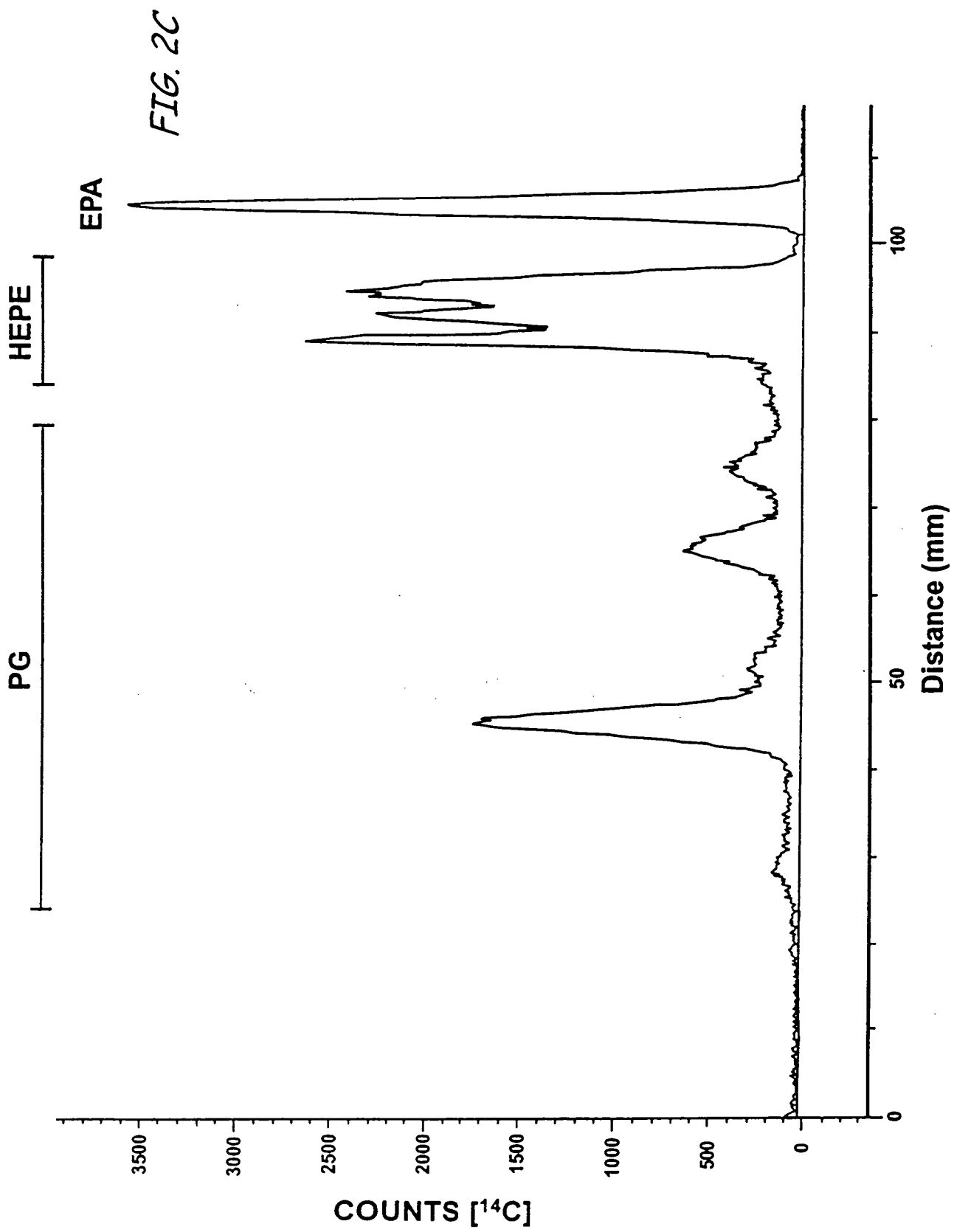
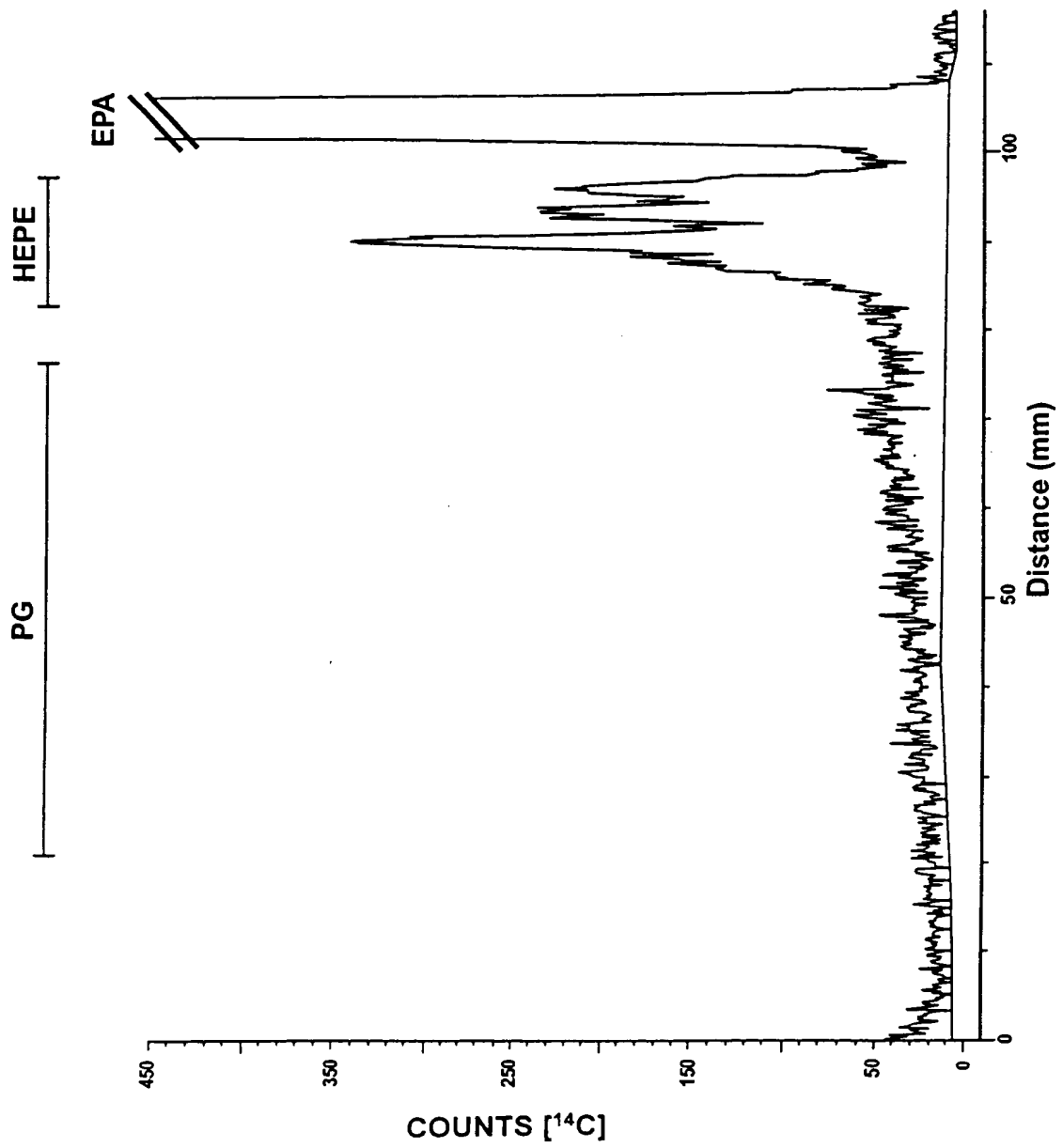


FIG. 2D



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**FIG. 3A**

**Conversion of EPA by *B. megaterium***

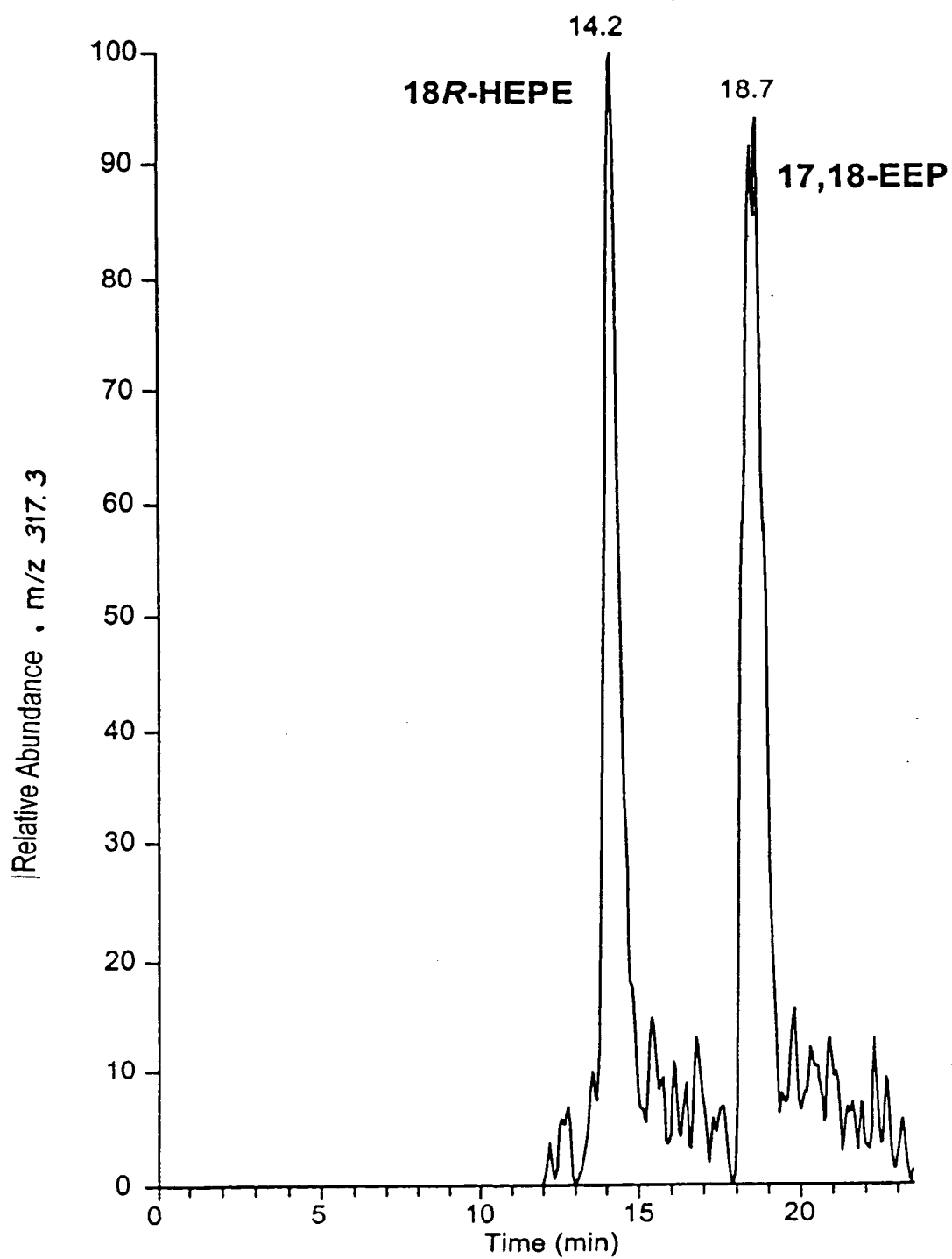


FIG. 3B

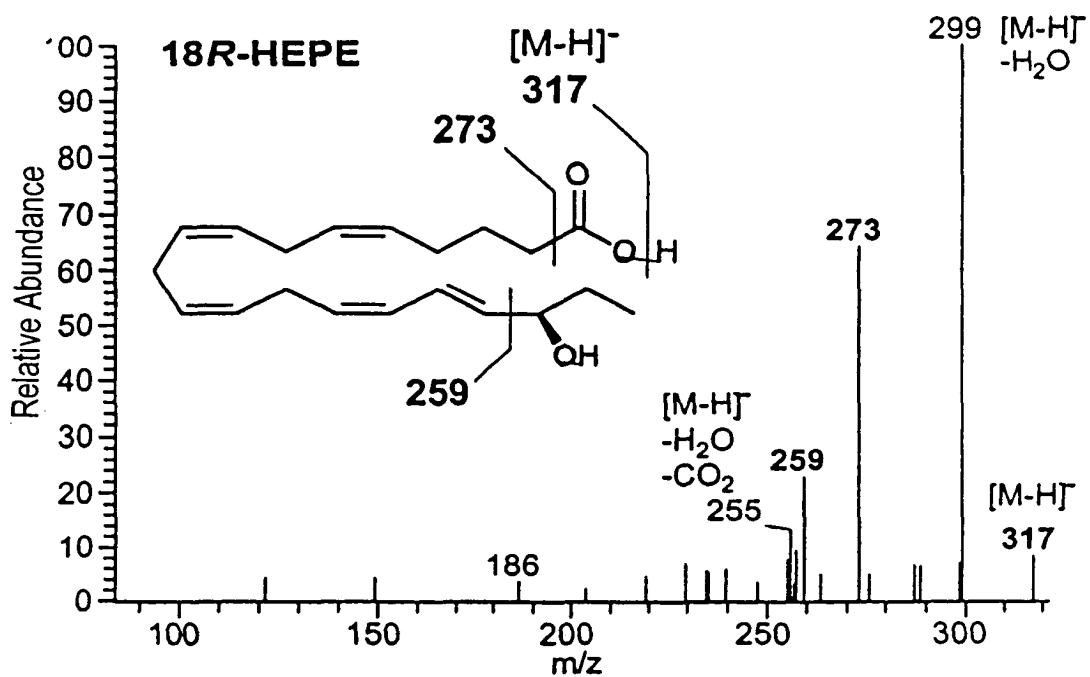
Conversion of EPA by *B. megaterium*

FIG. 3C

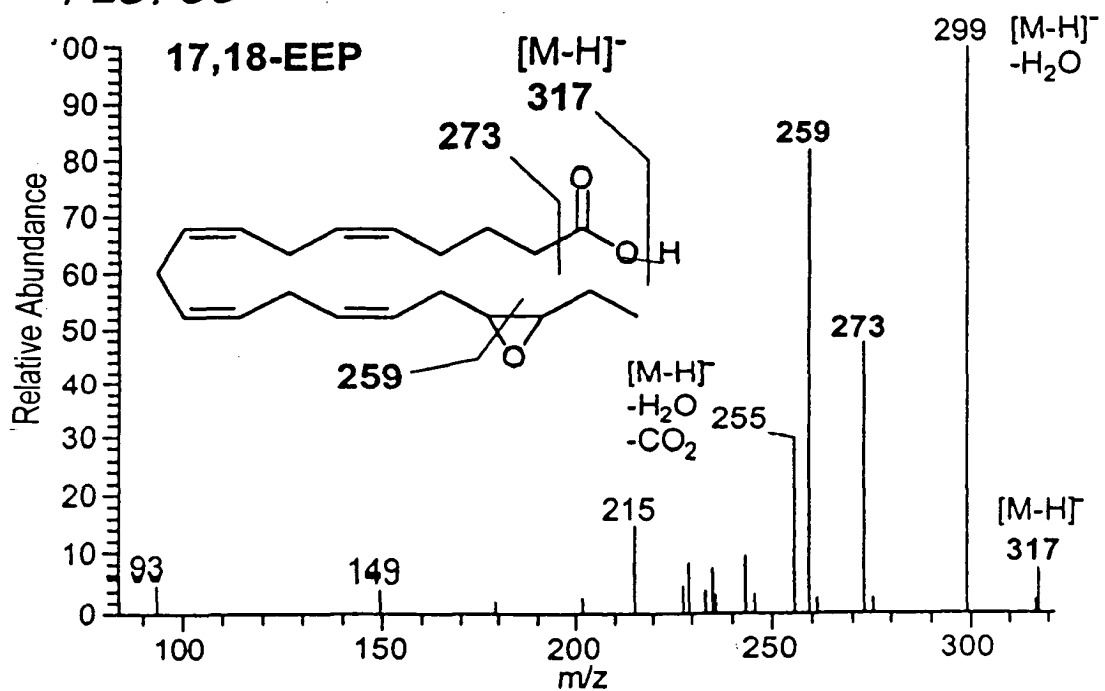


FIG. 4A

18R-HEPE

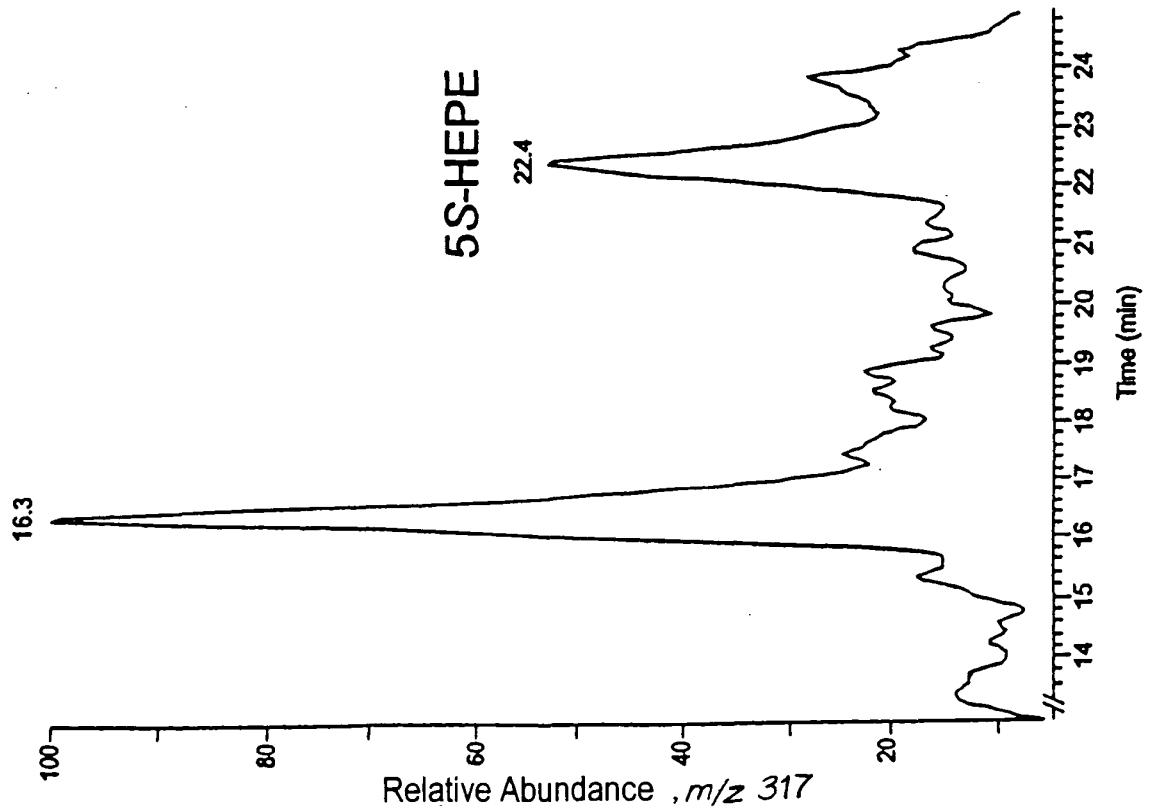


FIG. 4B

MS/MS 18R-HEPE

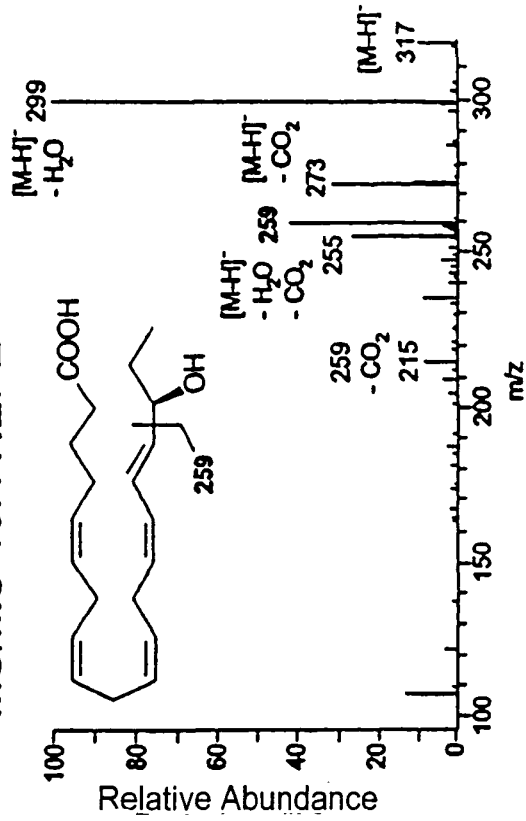
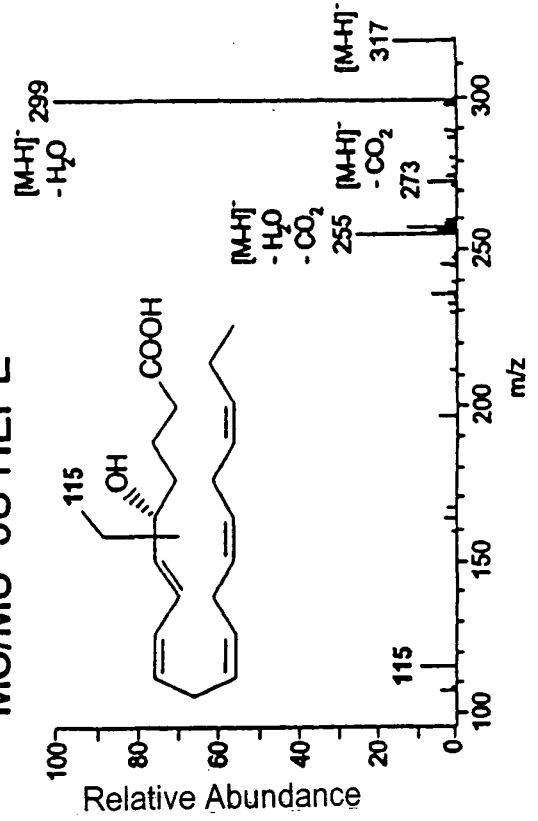


FIG. 4C

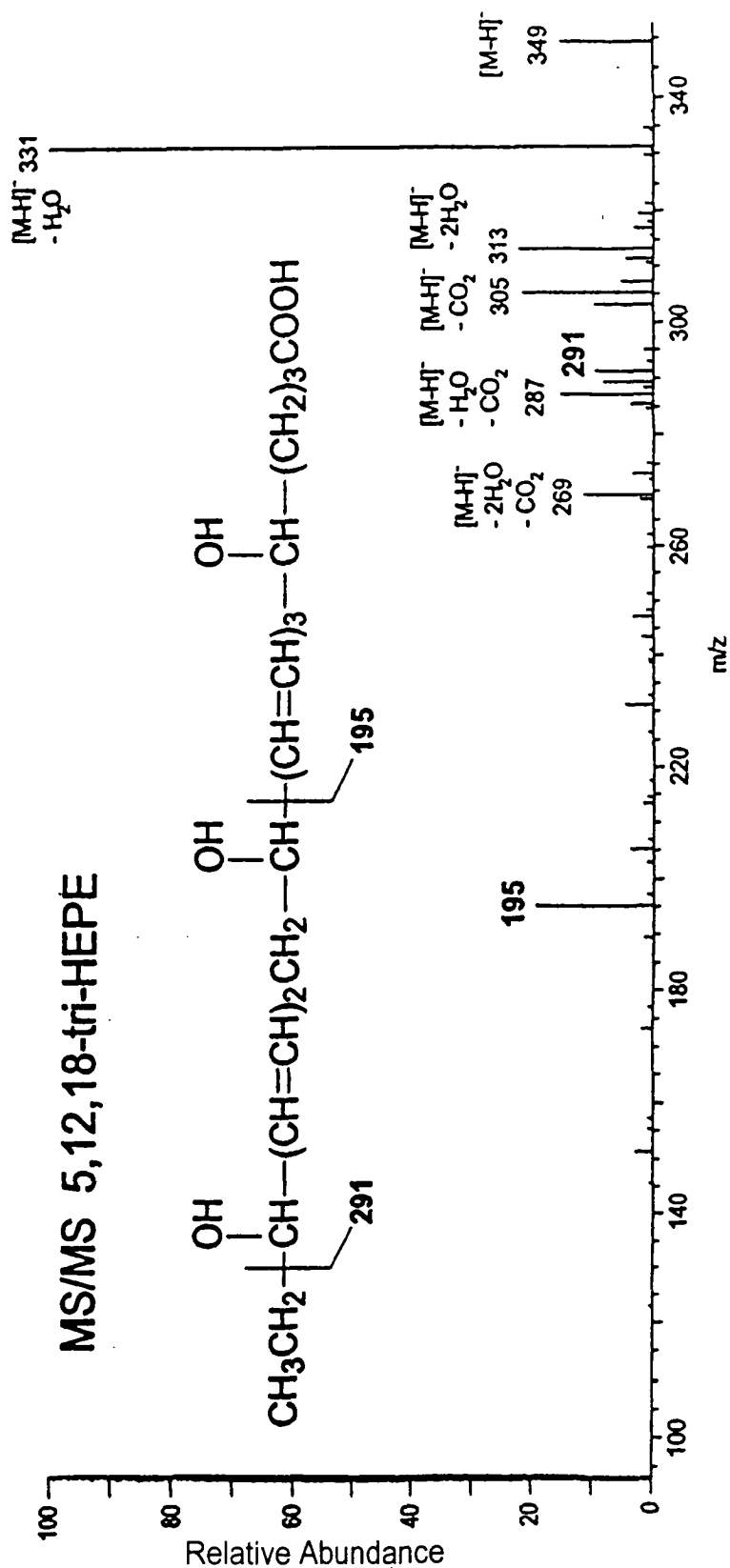
MS/MS 5S-HEPE



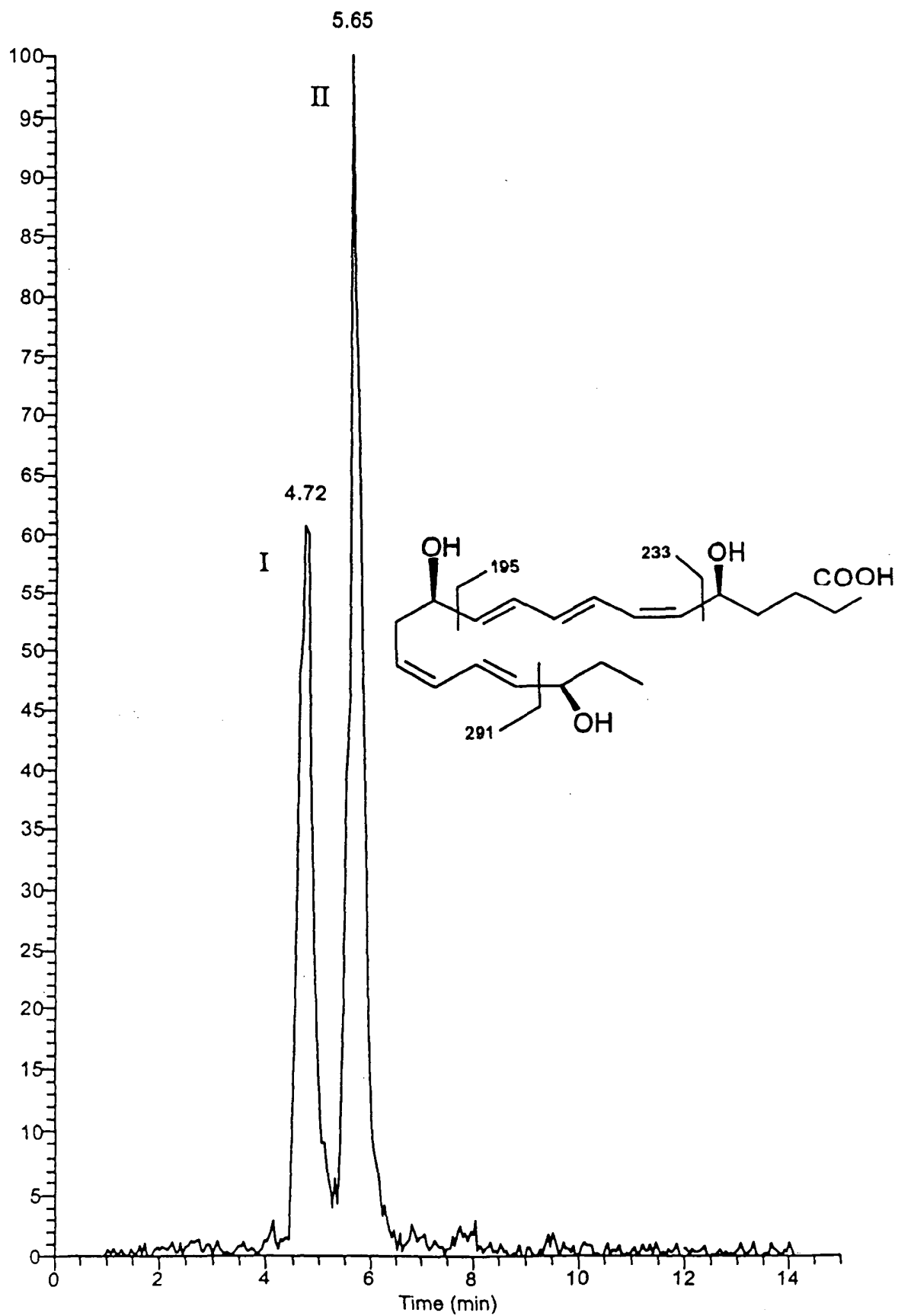


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FIG. 4D



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**FIG. 5A** MS 5,12,18-tri-HEPE from *B. megaterium*



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FIG. 5B

I MS/MS m/z 349.4

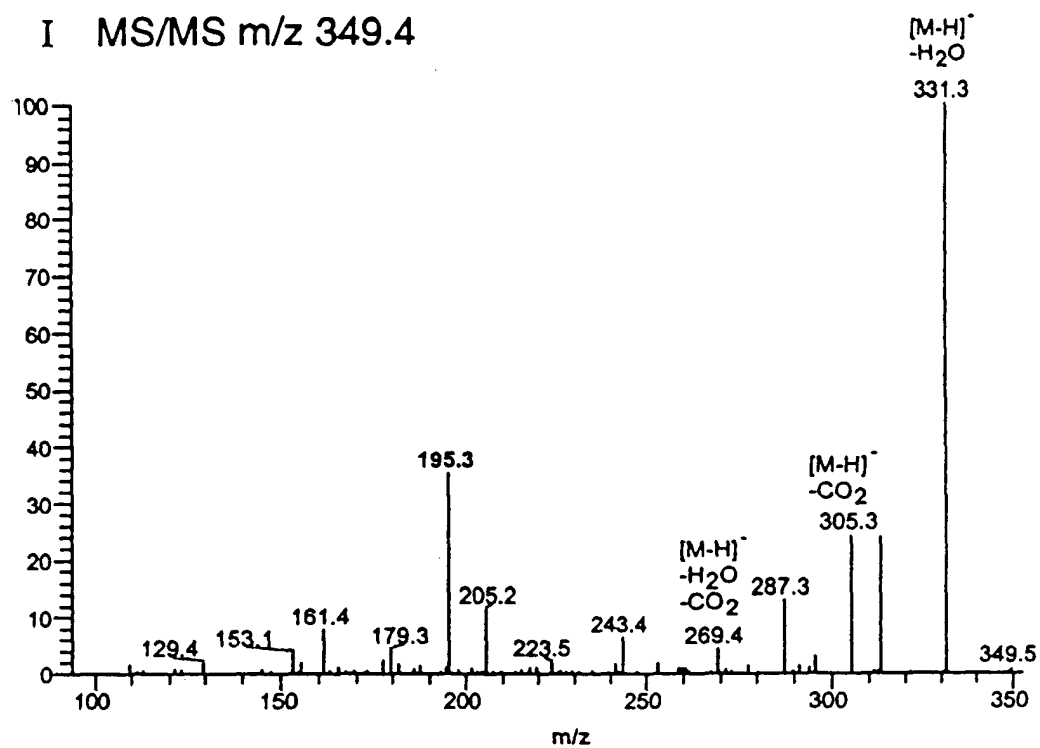


FIG. 5C

II MS/MS m/z 349.4

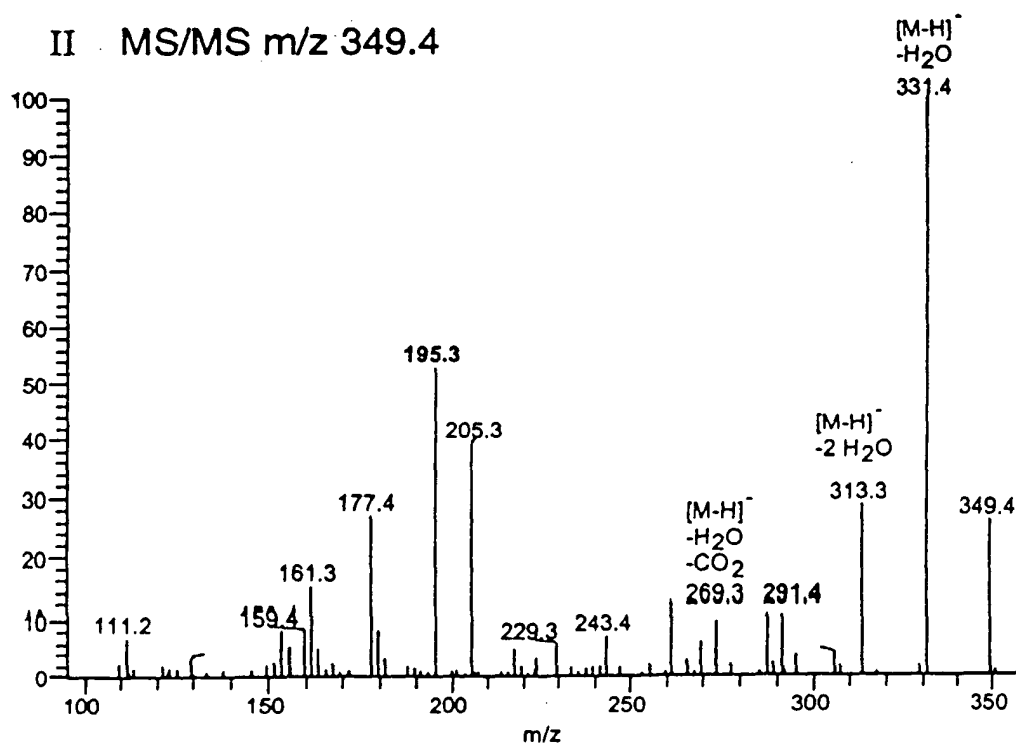


FIG. 6

# Murine Dorsal Air Pouch

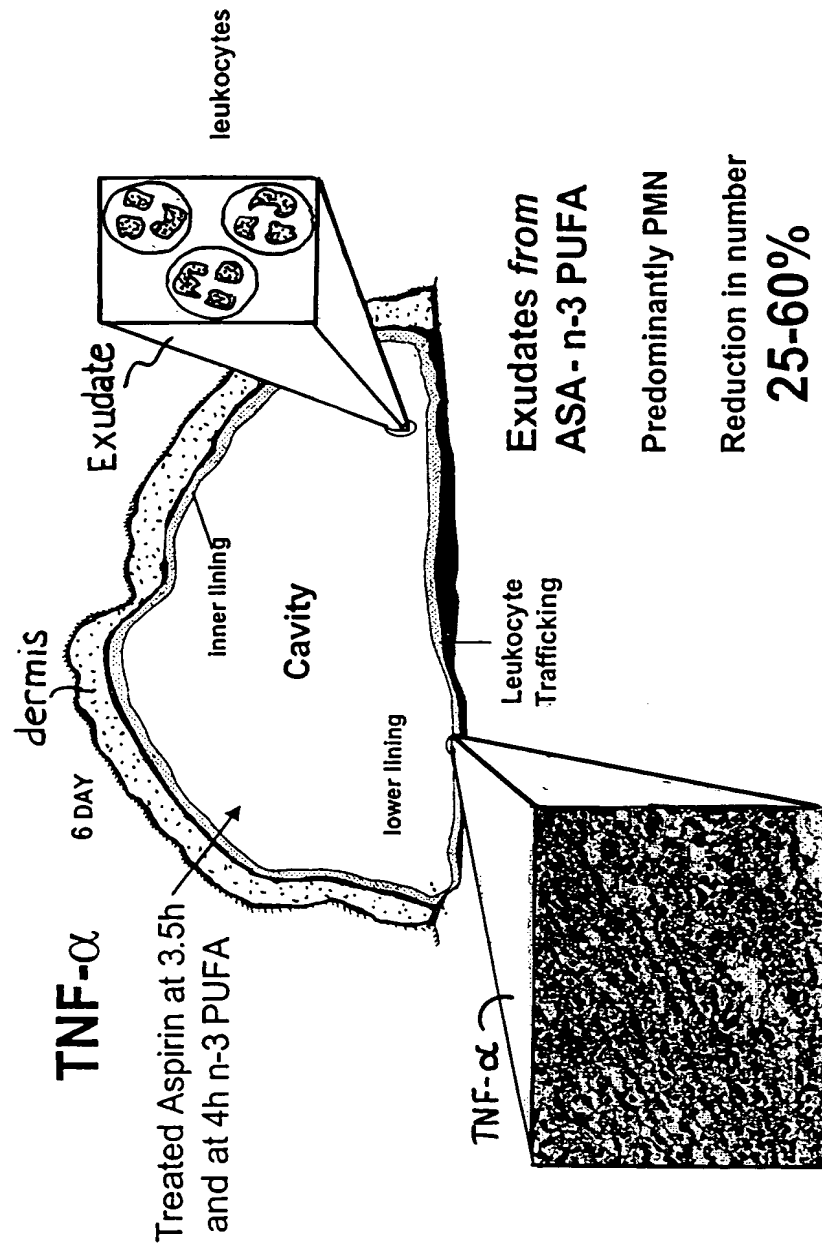


FIG. 7A

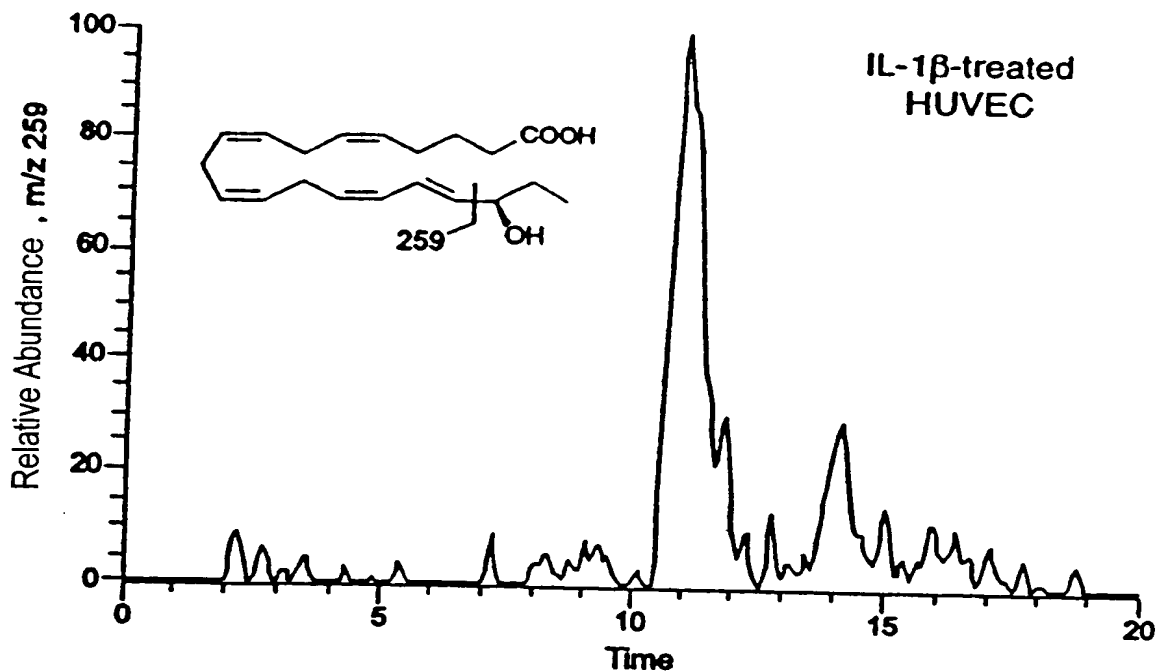
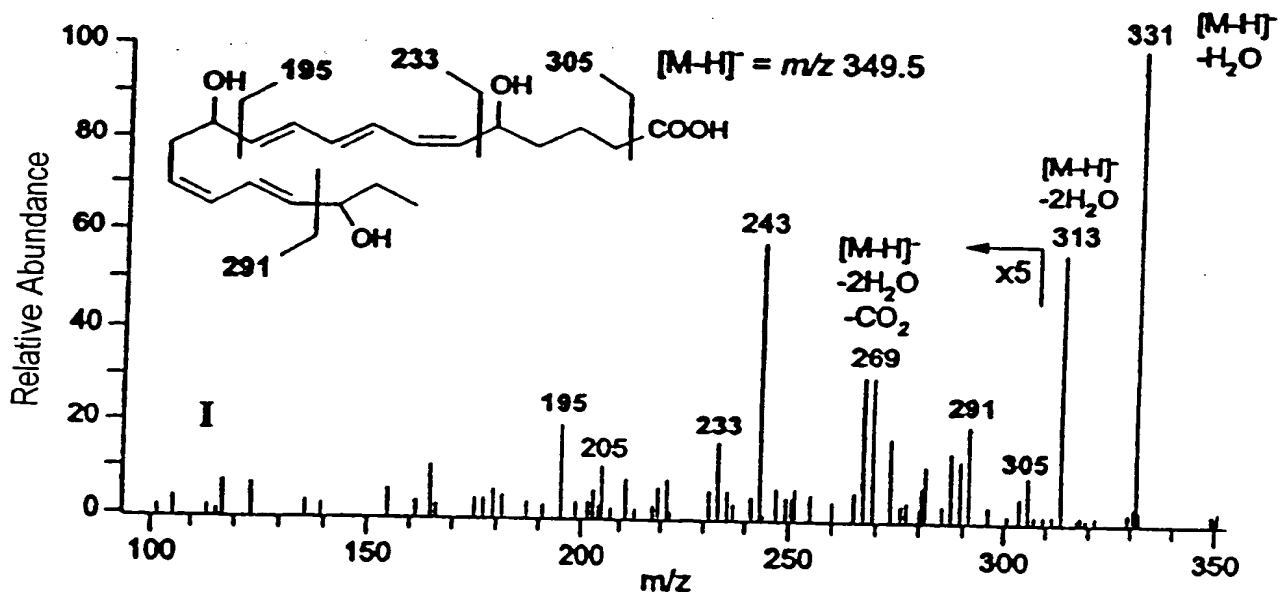


FIG. 7C



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FIG. 7B

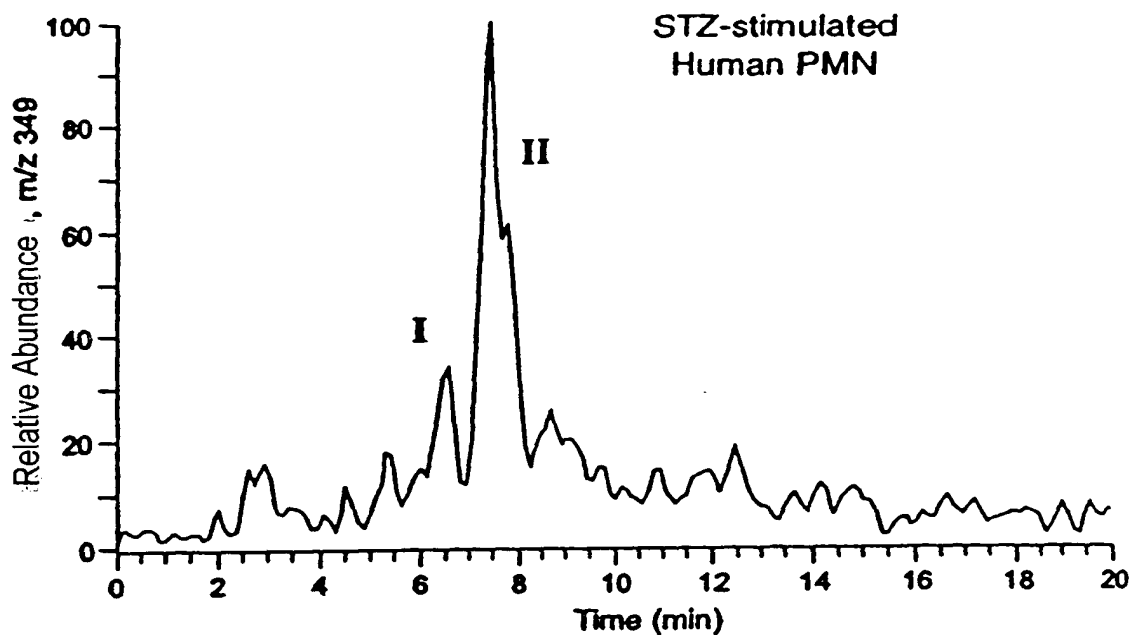
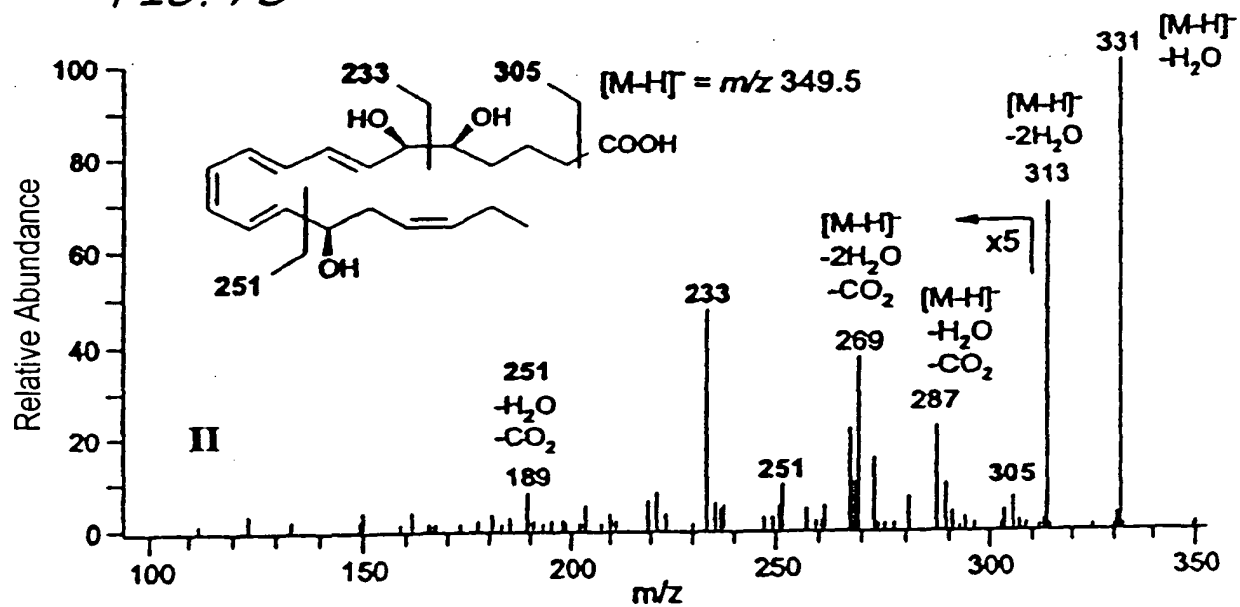


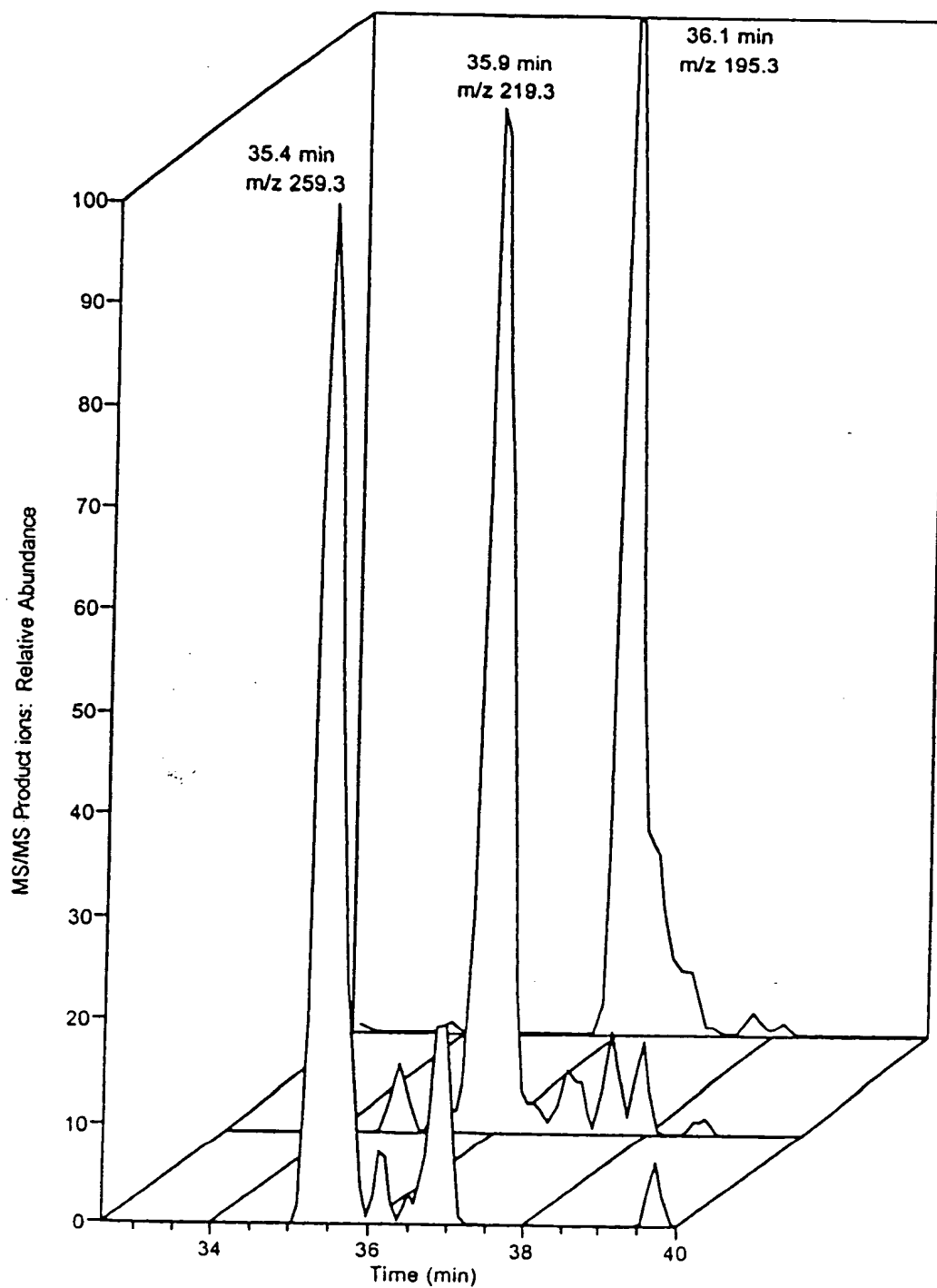
FIG. 7D



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*FIG. 8A*

Mono-HEPES: Enzymatic Products from Acetylated COX 2 and EPA



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FIG. 8B

Mono-HEPES: Enzymatic Products from Acetylated COX 2 and EPA

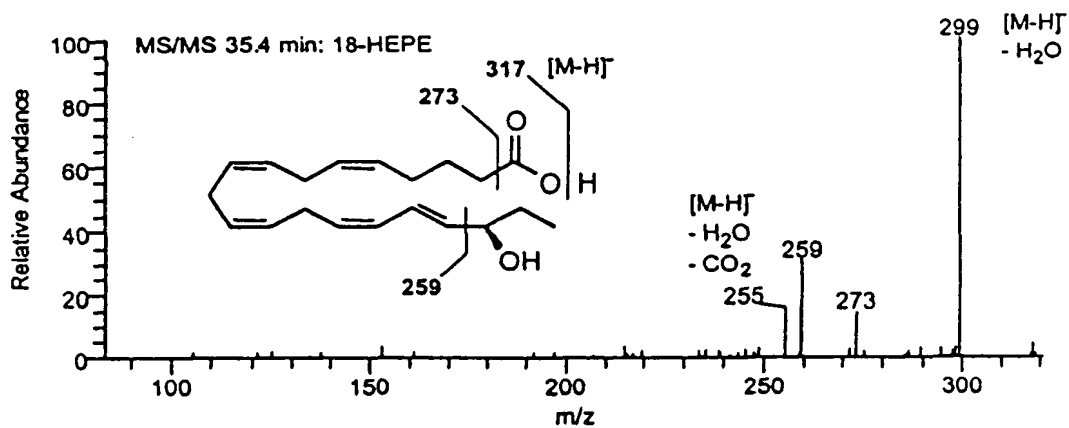


FIG. 8C

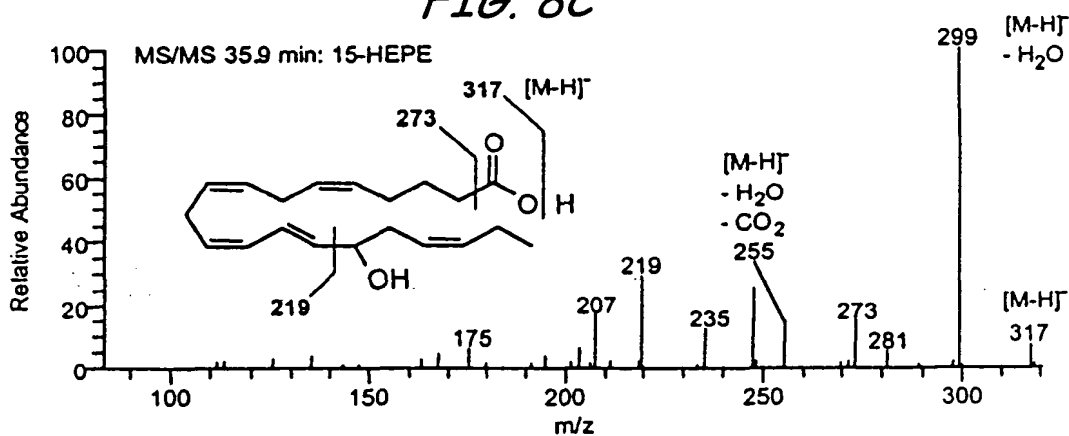
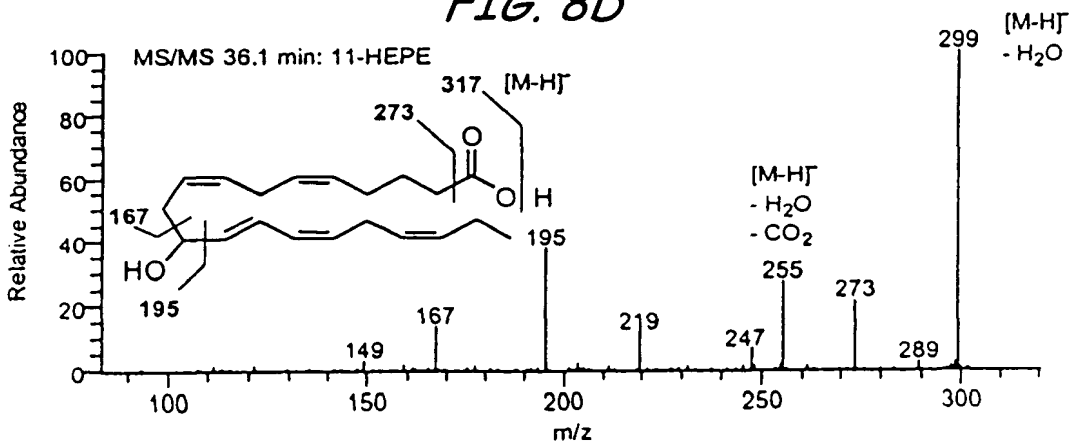


FIG. 8D





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FIG. 9A

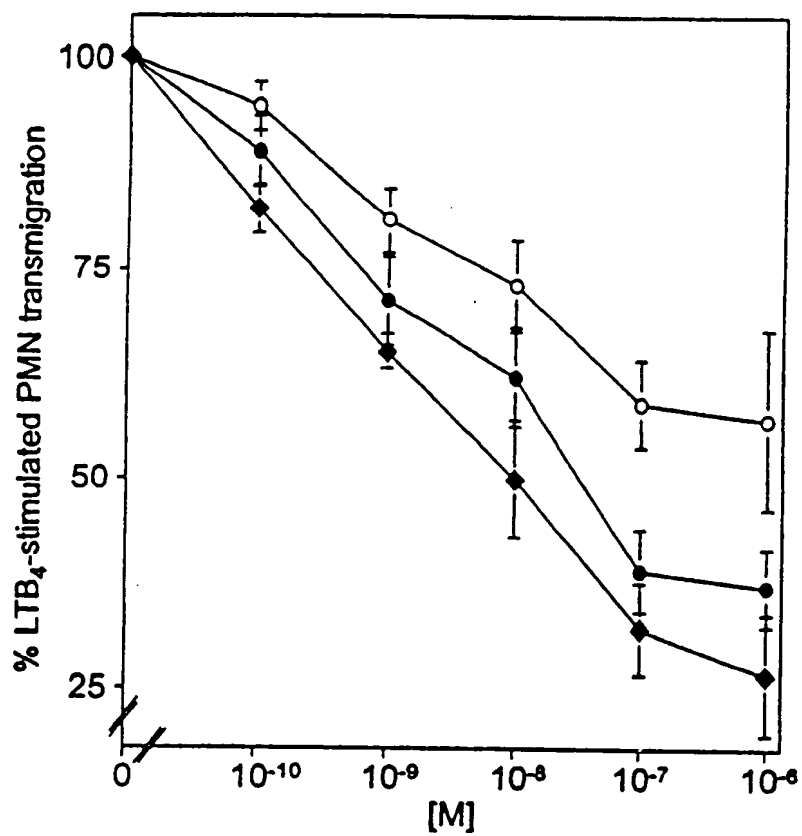


FIG. 9B

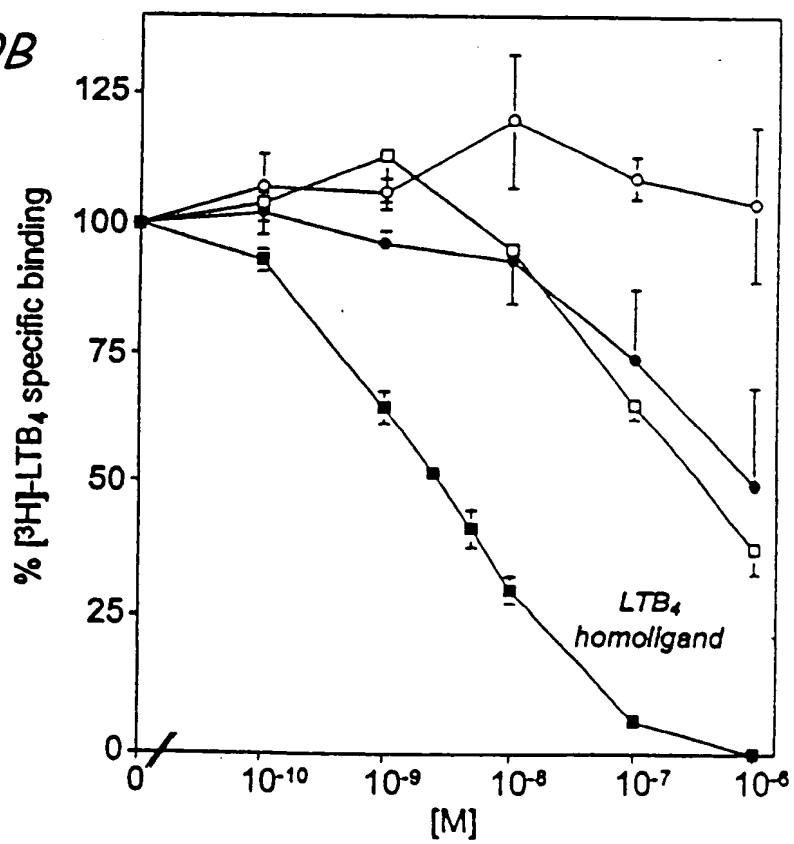
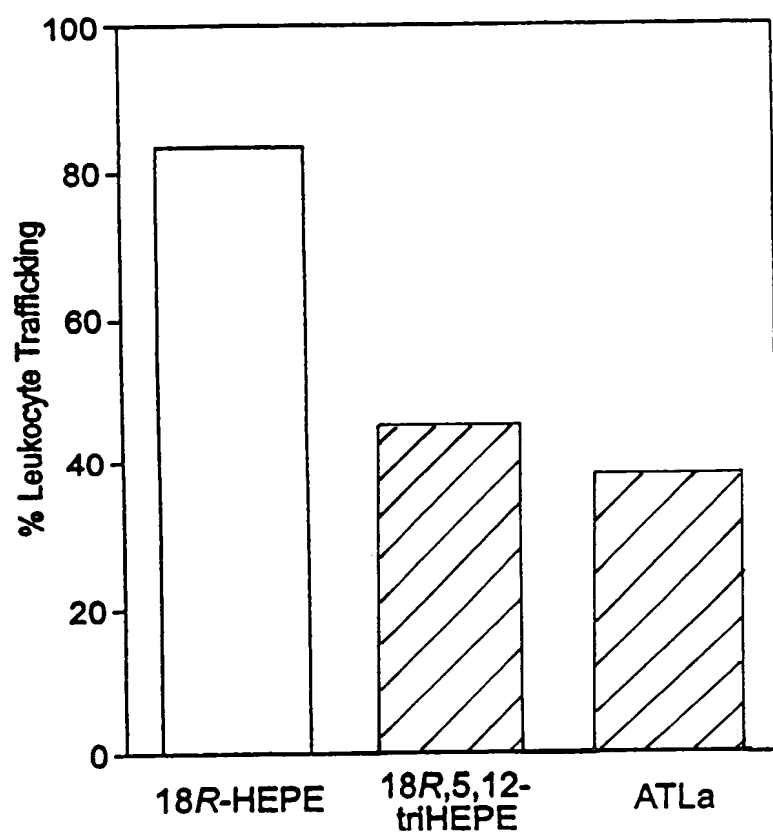


FIG. 9C



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15-HETrE  
FIG. 10A

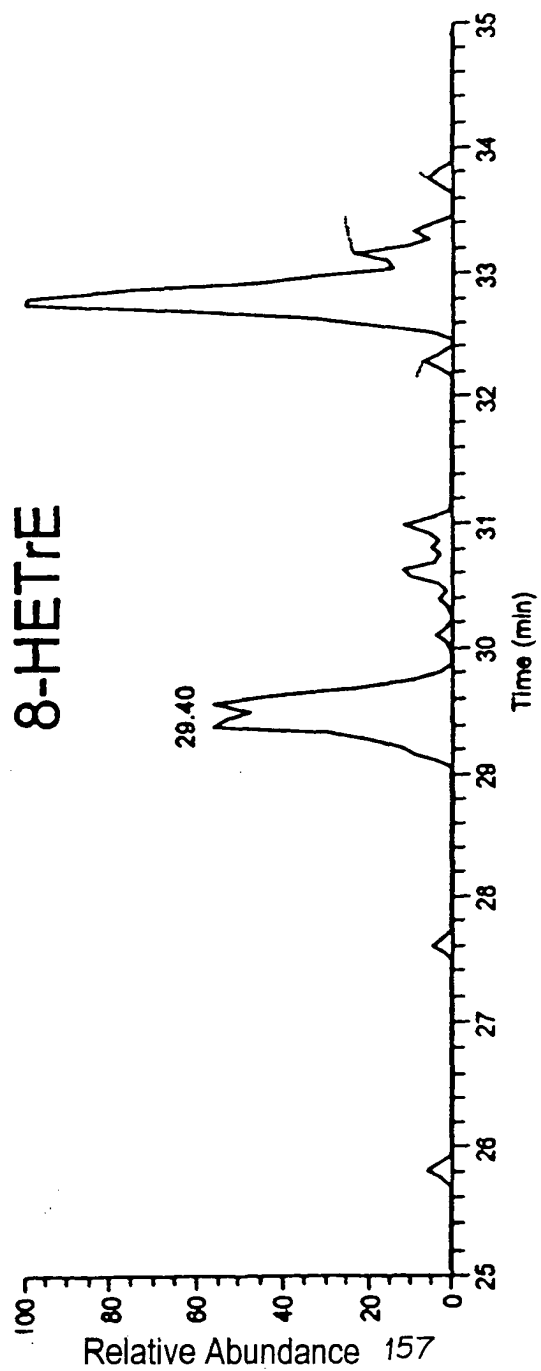
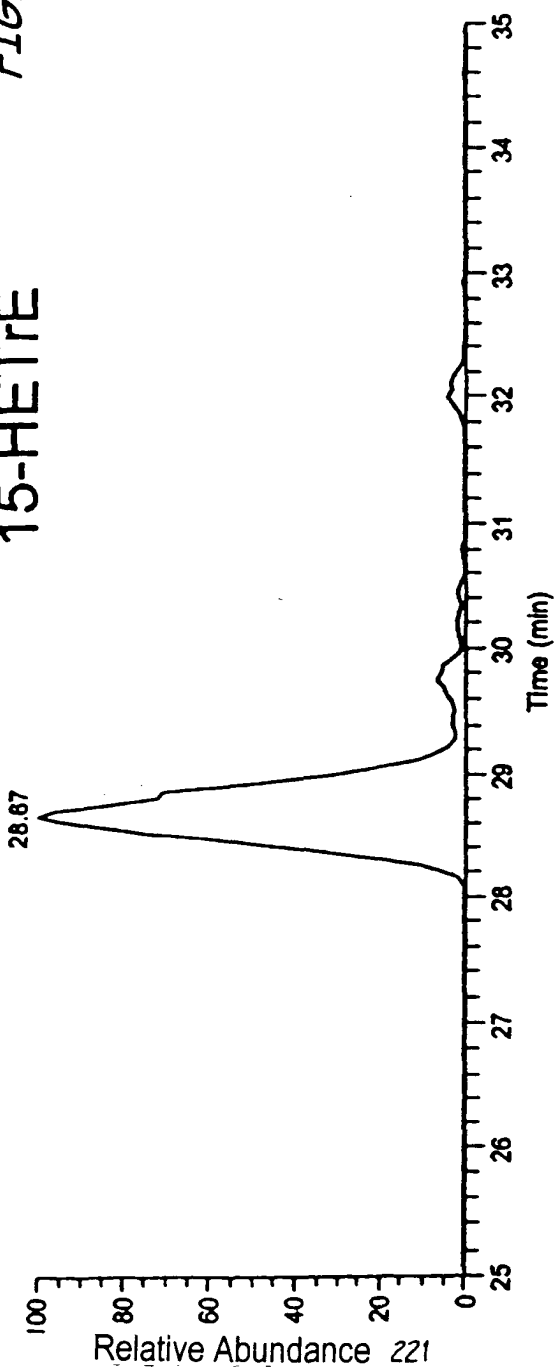


FIG. 10B

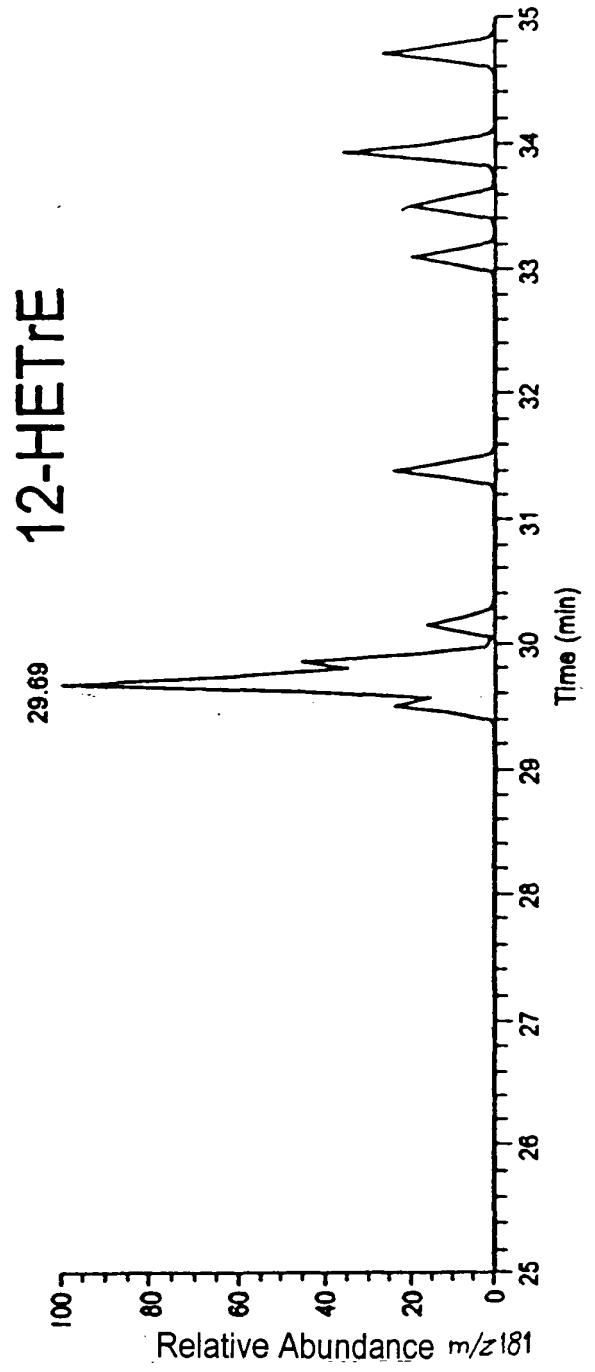
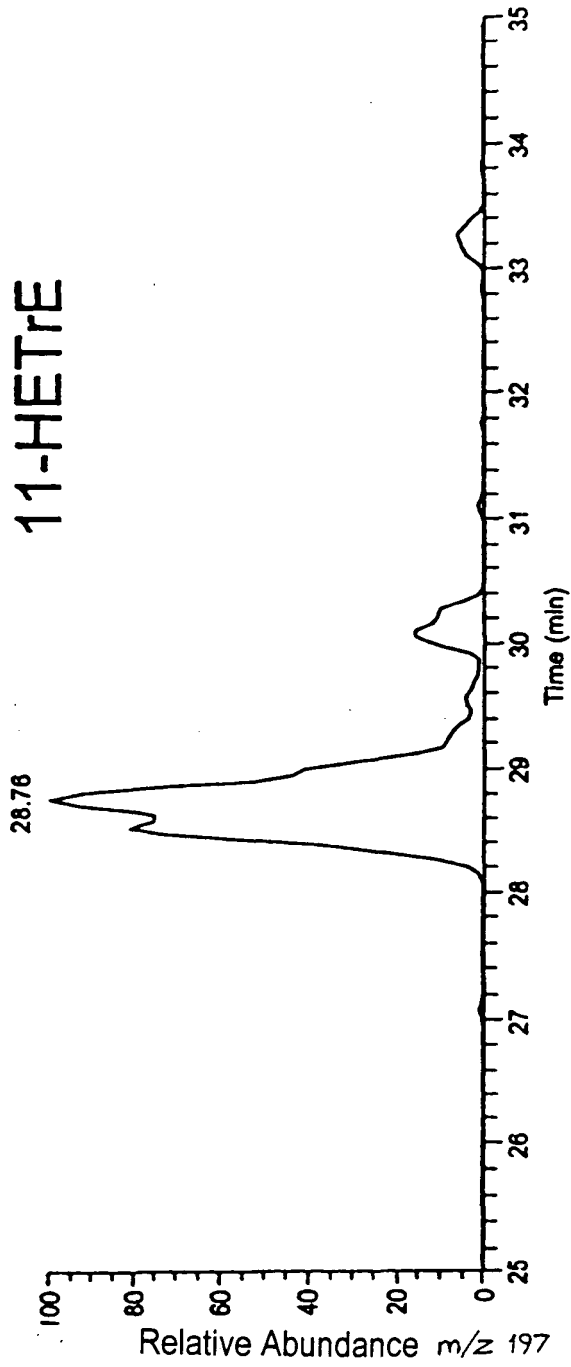
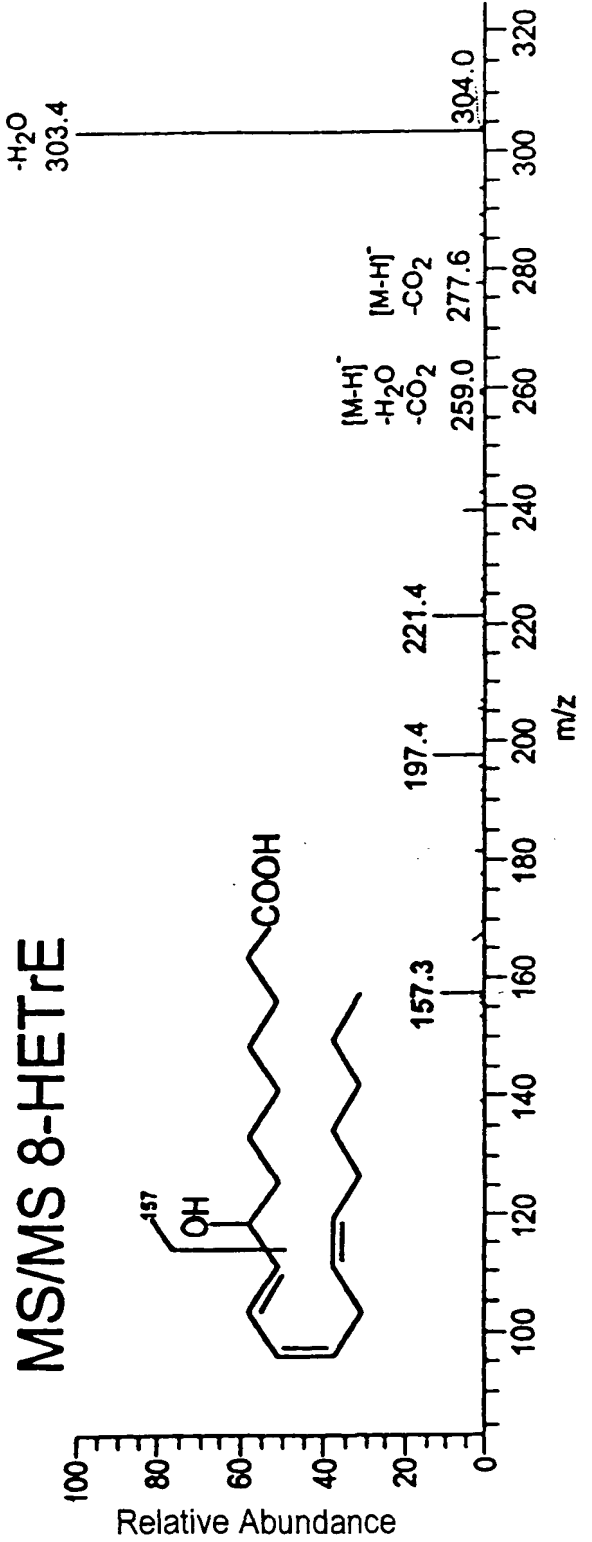
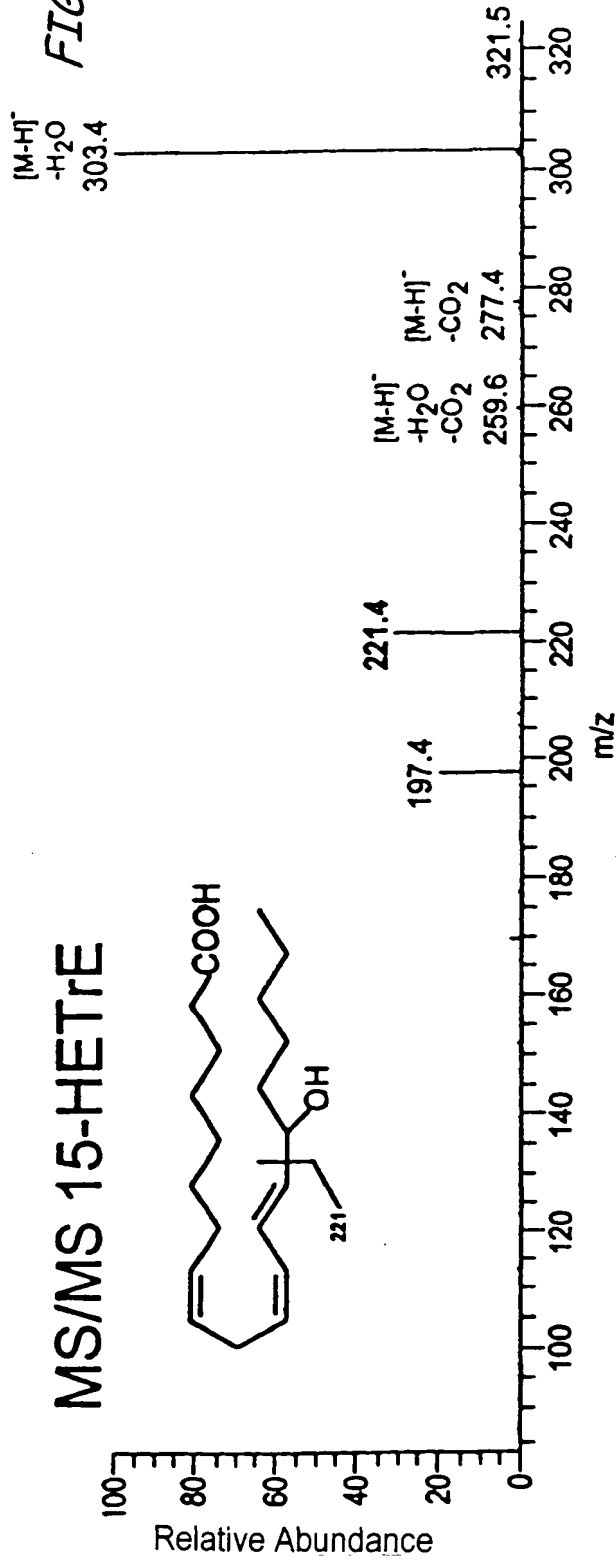
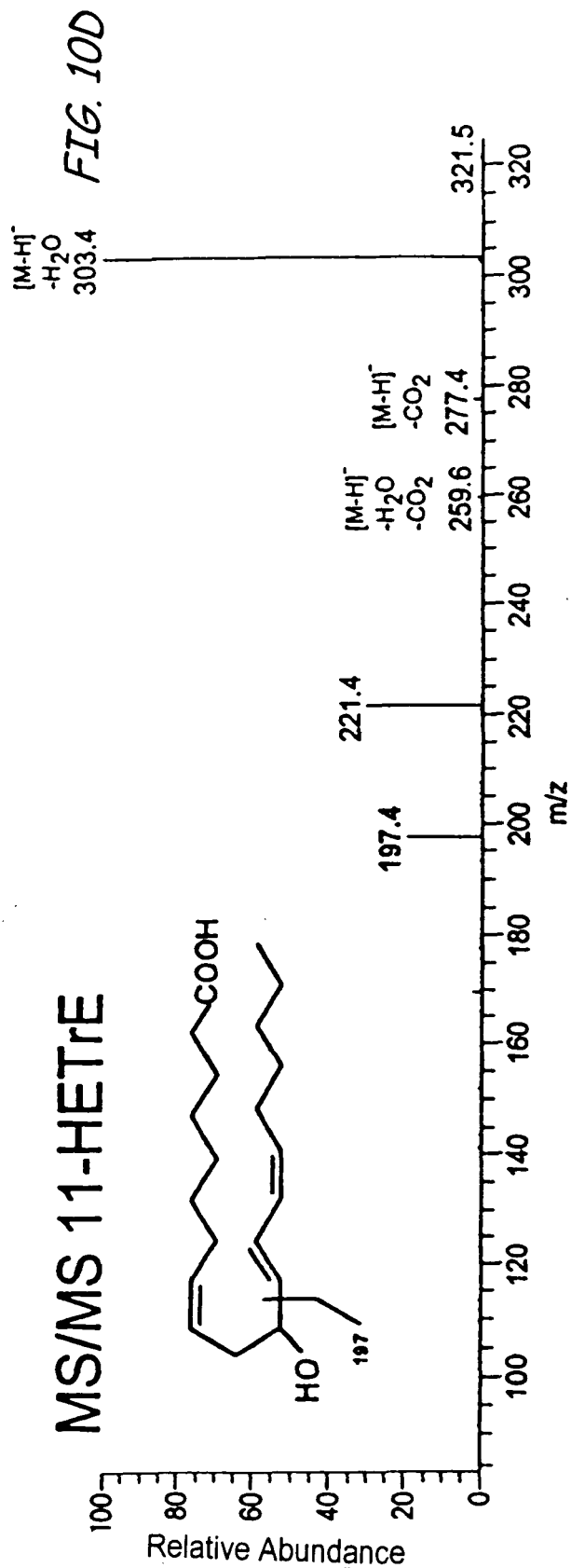


FIG. 10C



## MS/MS 11-HETre



## MS/MS 12-HETre

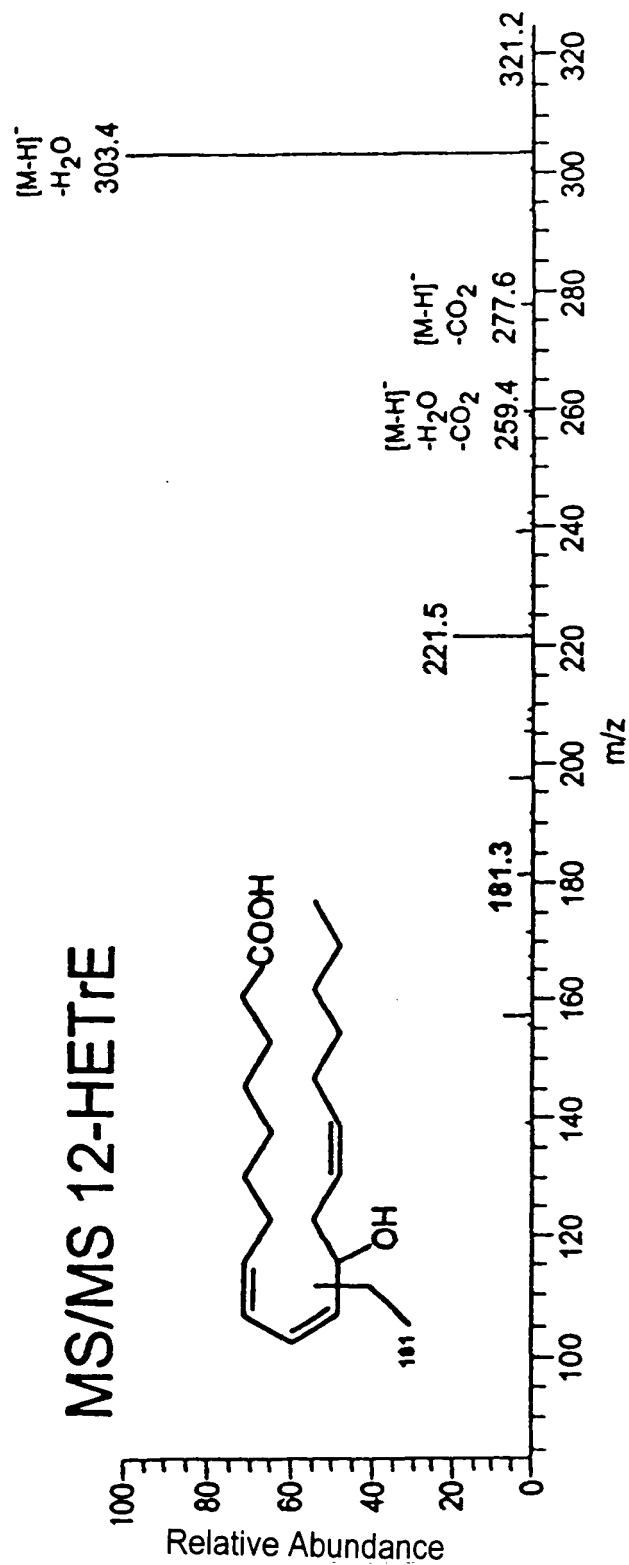
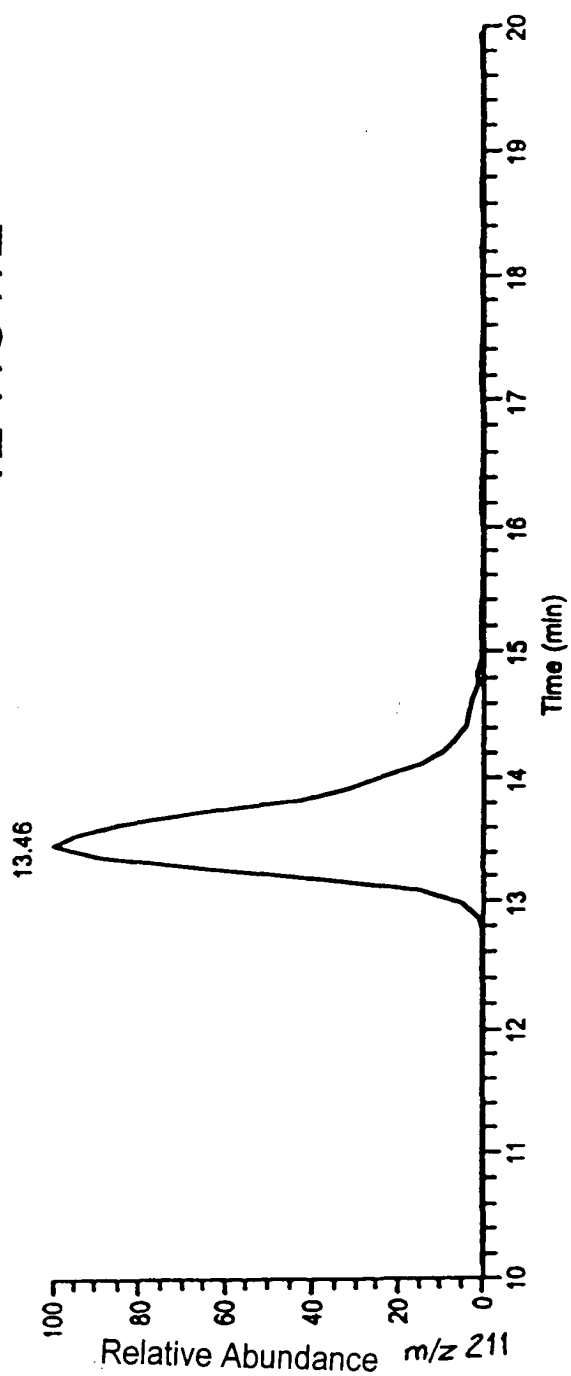


FIG. 10E

12-HOTrE



16-HOTrE

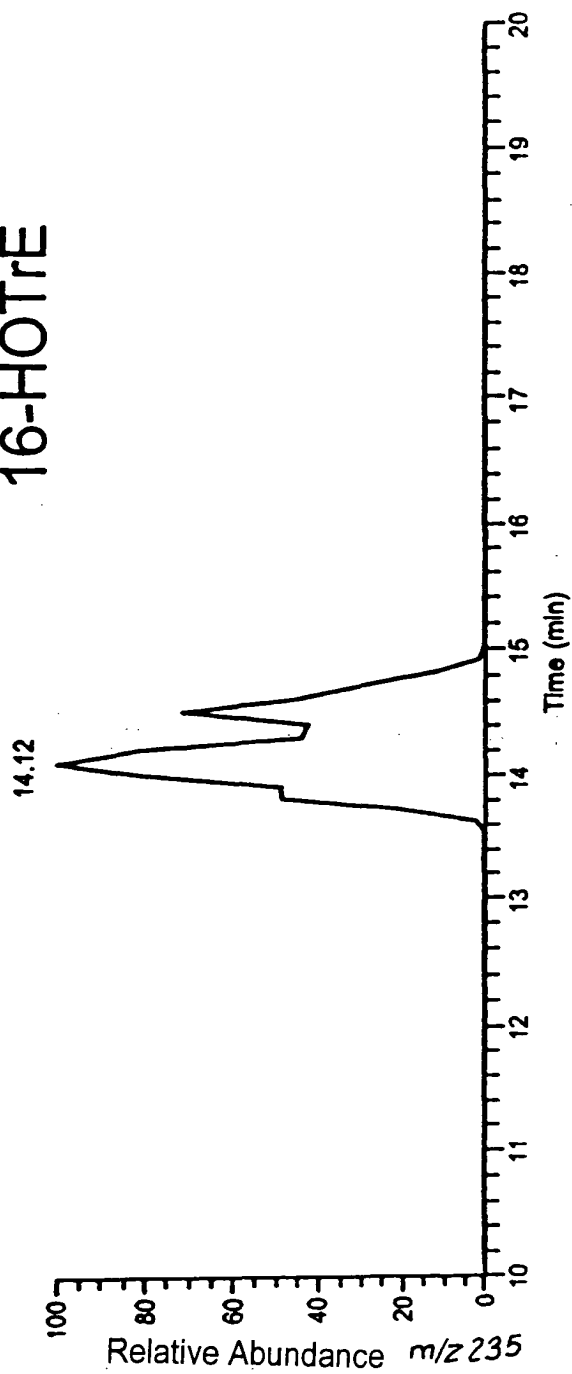
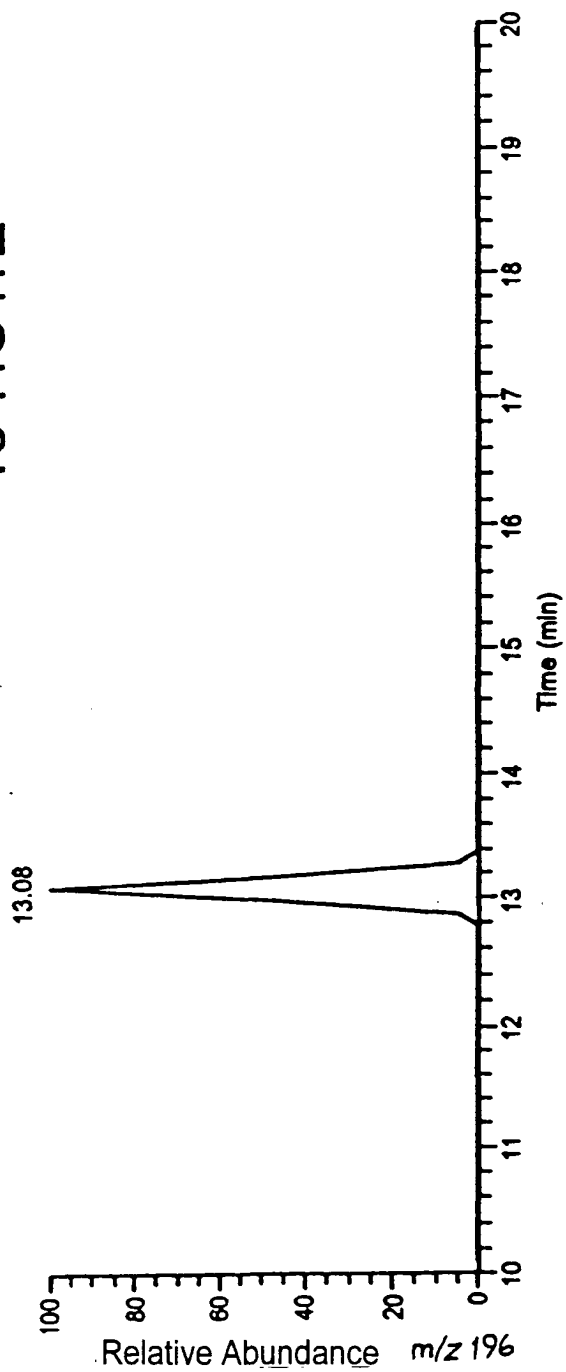
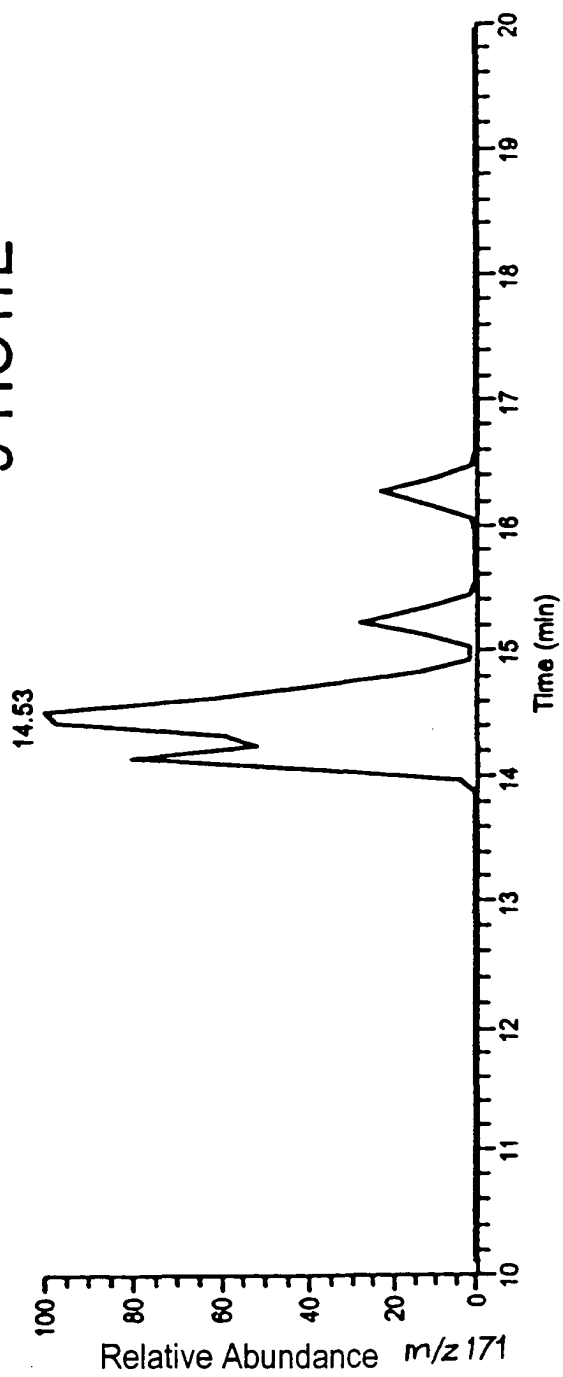


FIG. 10F

## 13-HOTrE



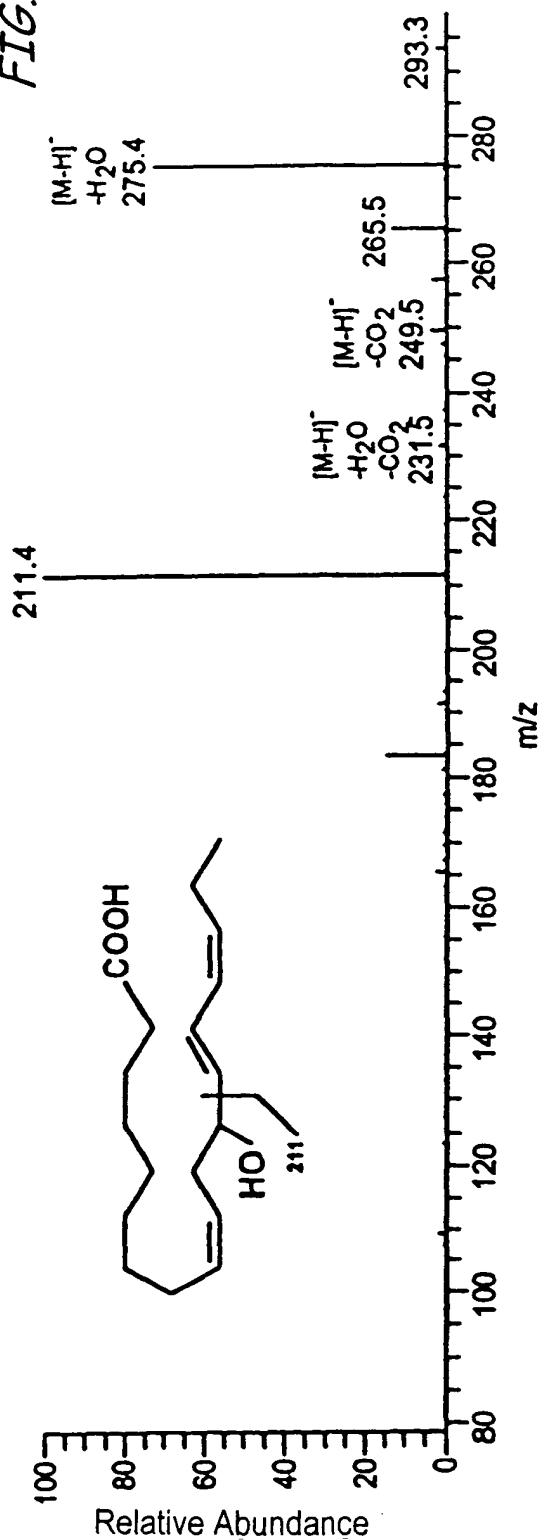
## 9-HOTrE



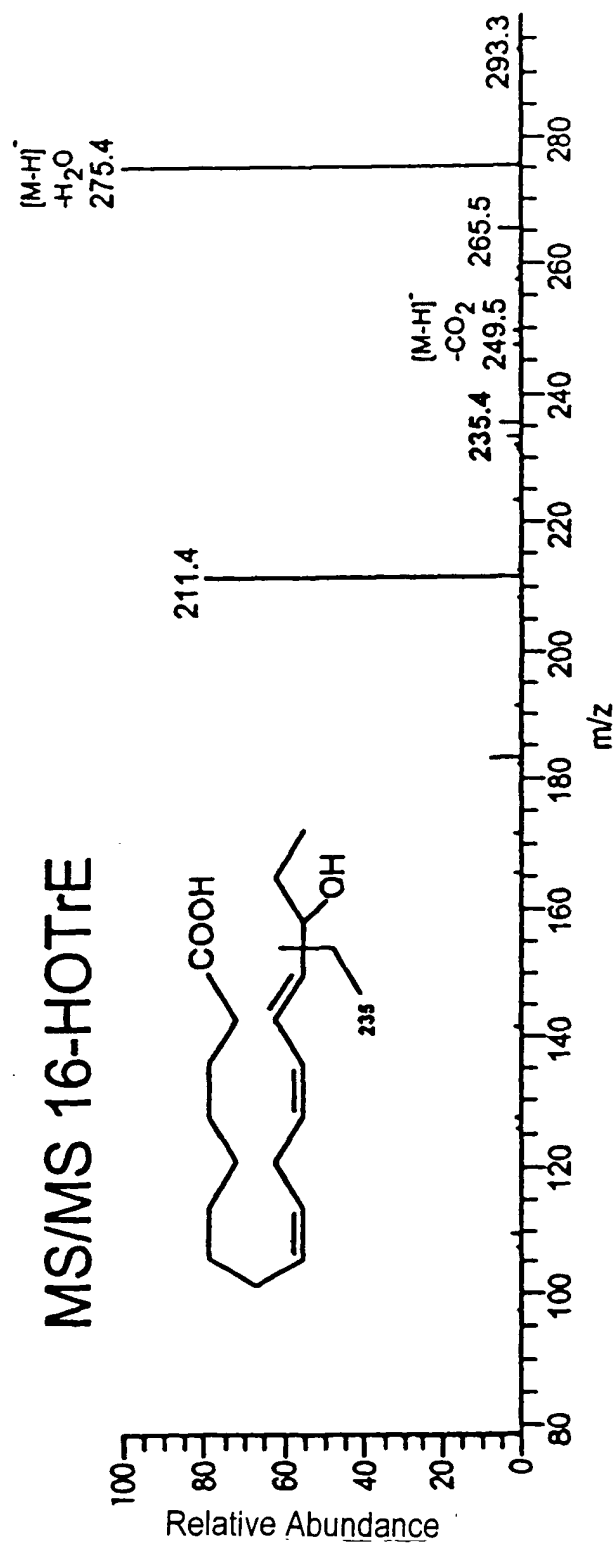


## MS/MS 12-HOTrE

FIG. 10G

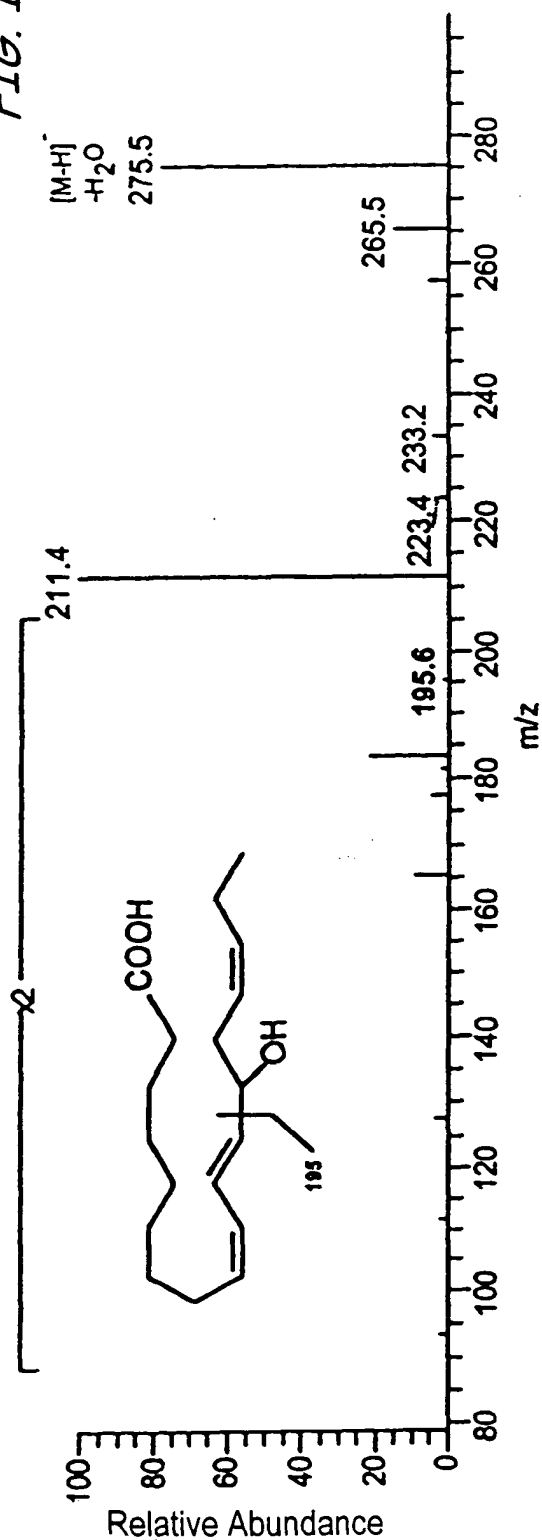


## MS/MS 16-HOTrE

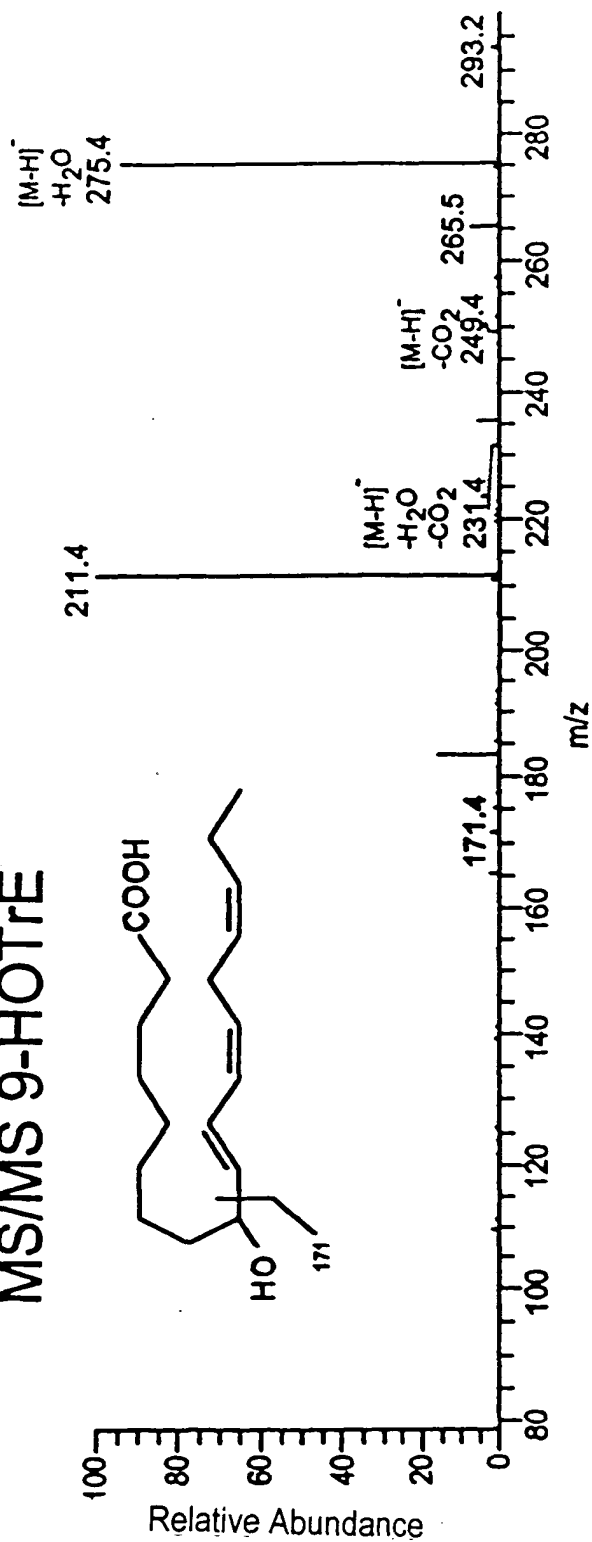


## MS/MS 13-HOTrE

FIG. 10H



## MS/MS 9-HOTrE



# 9-HODE

FIG. 10I

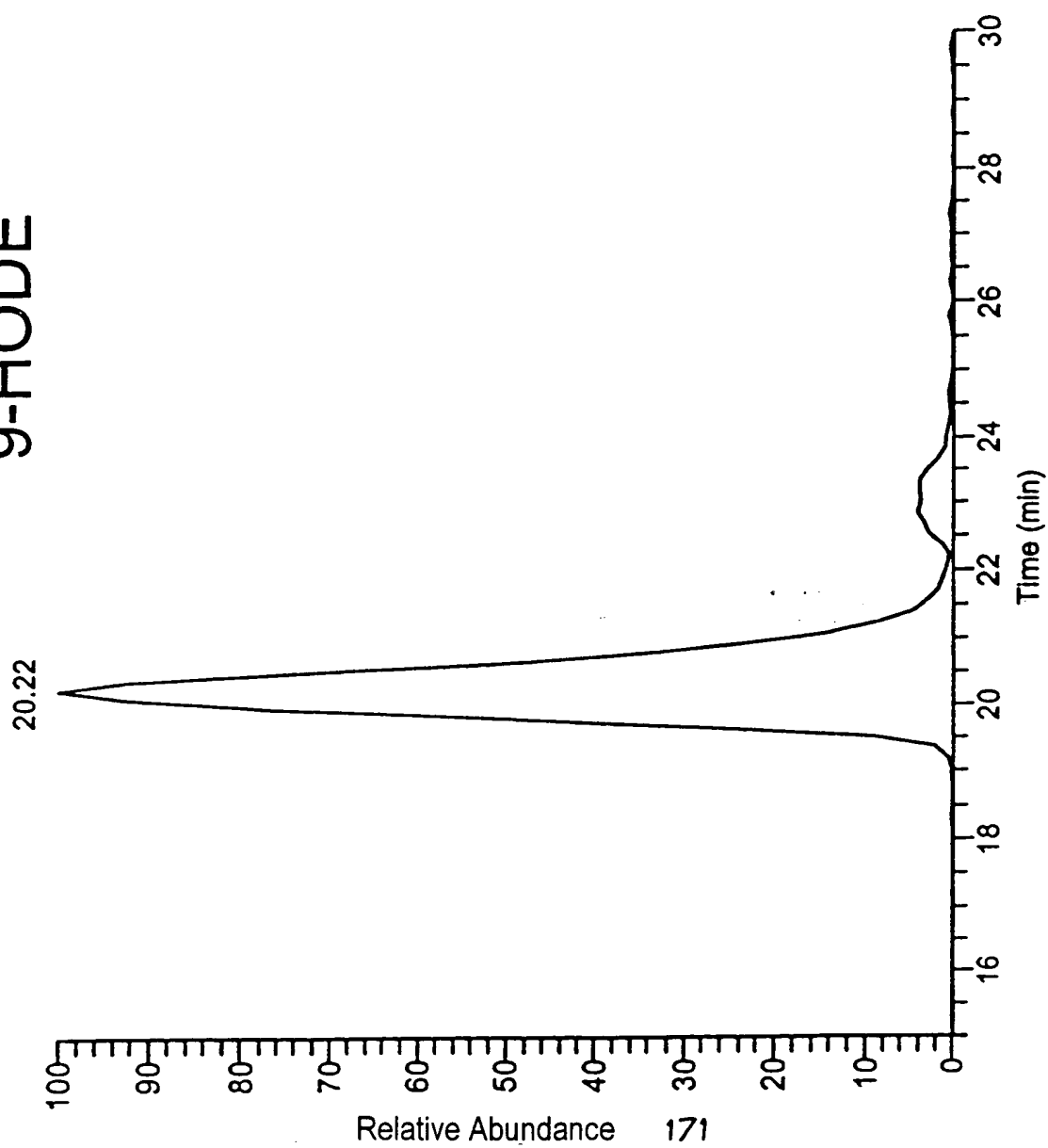
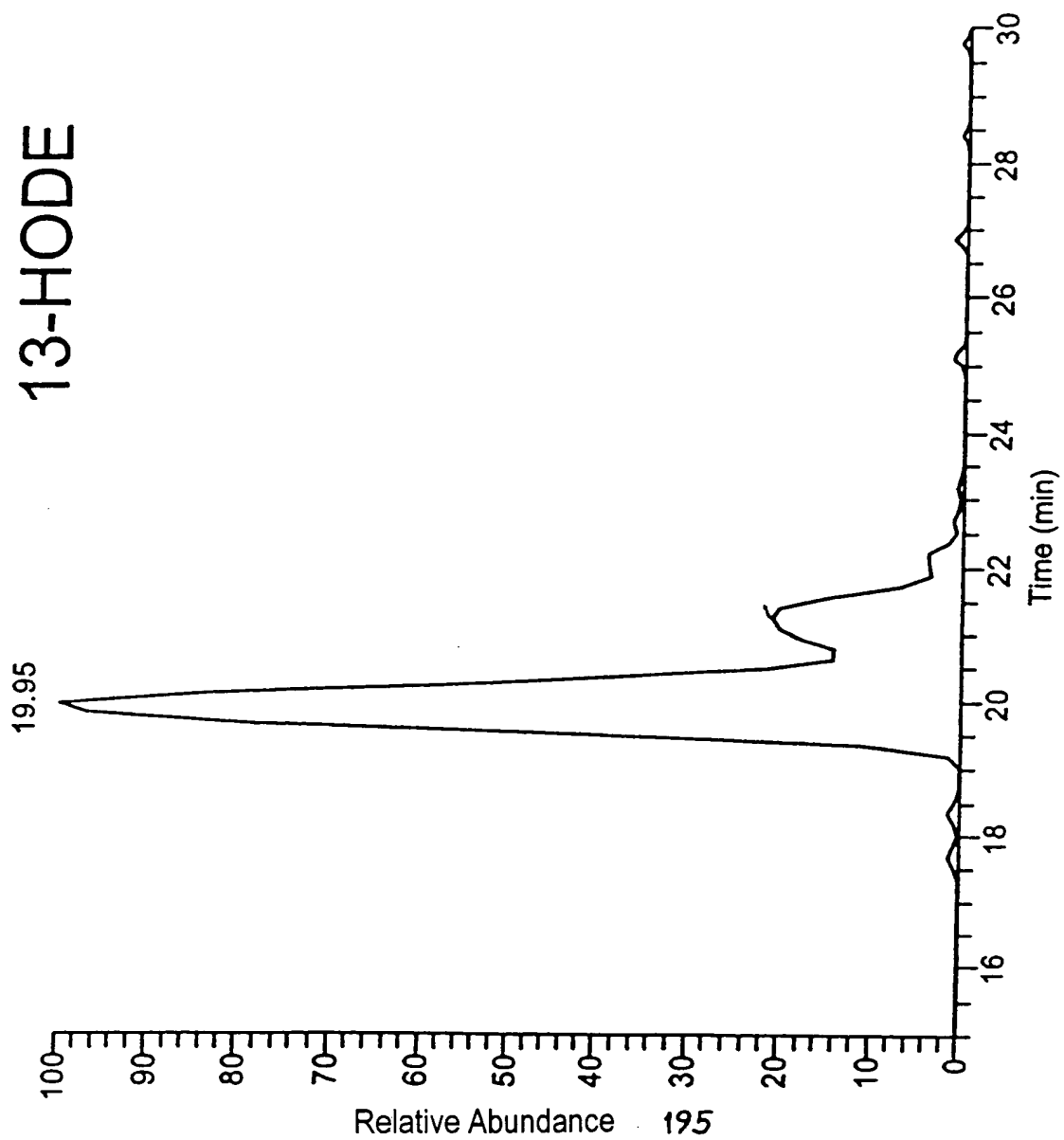


FIG. 10J



MS/MS 9-HODE

FIG. 10K

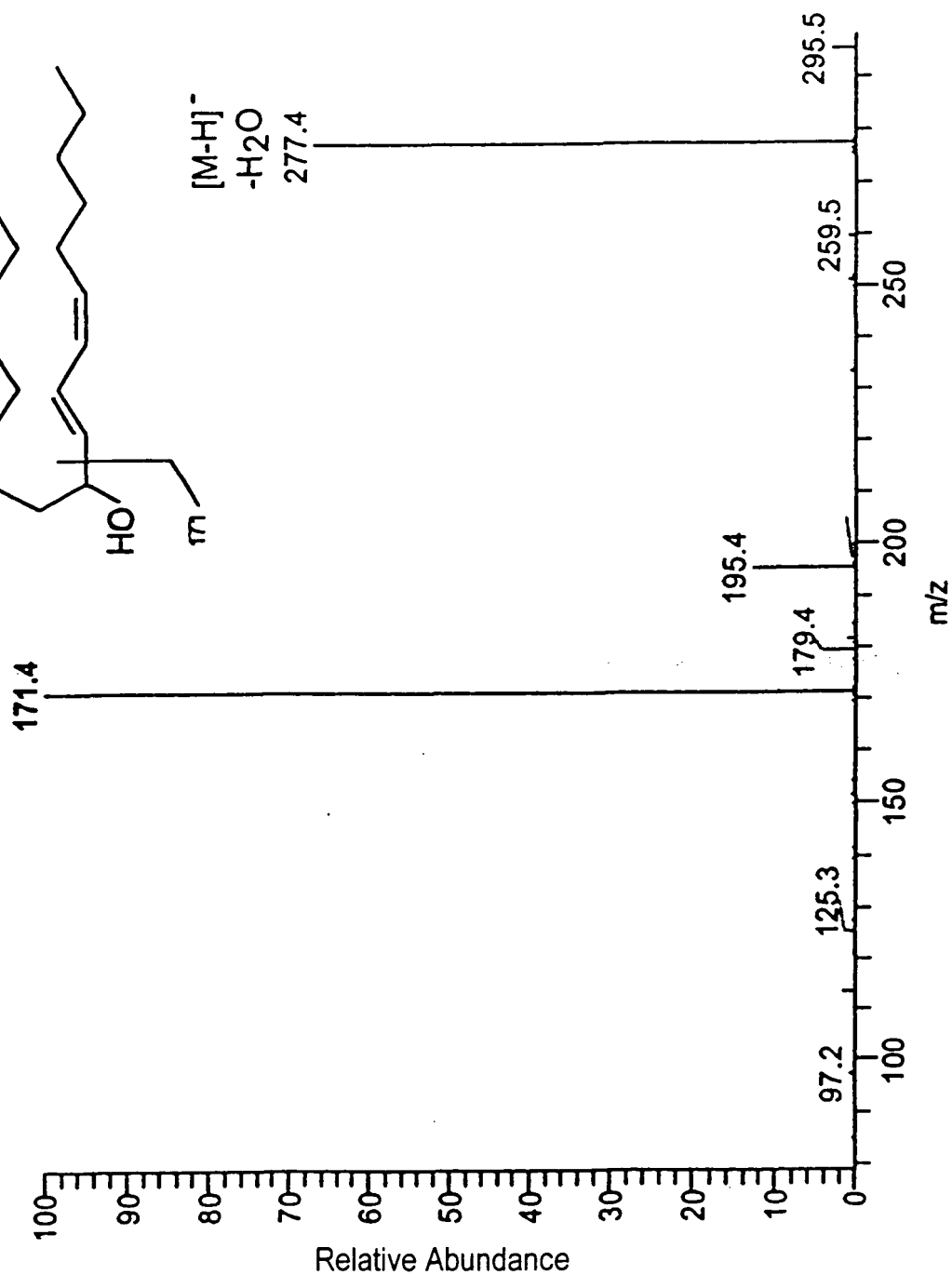
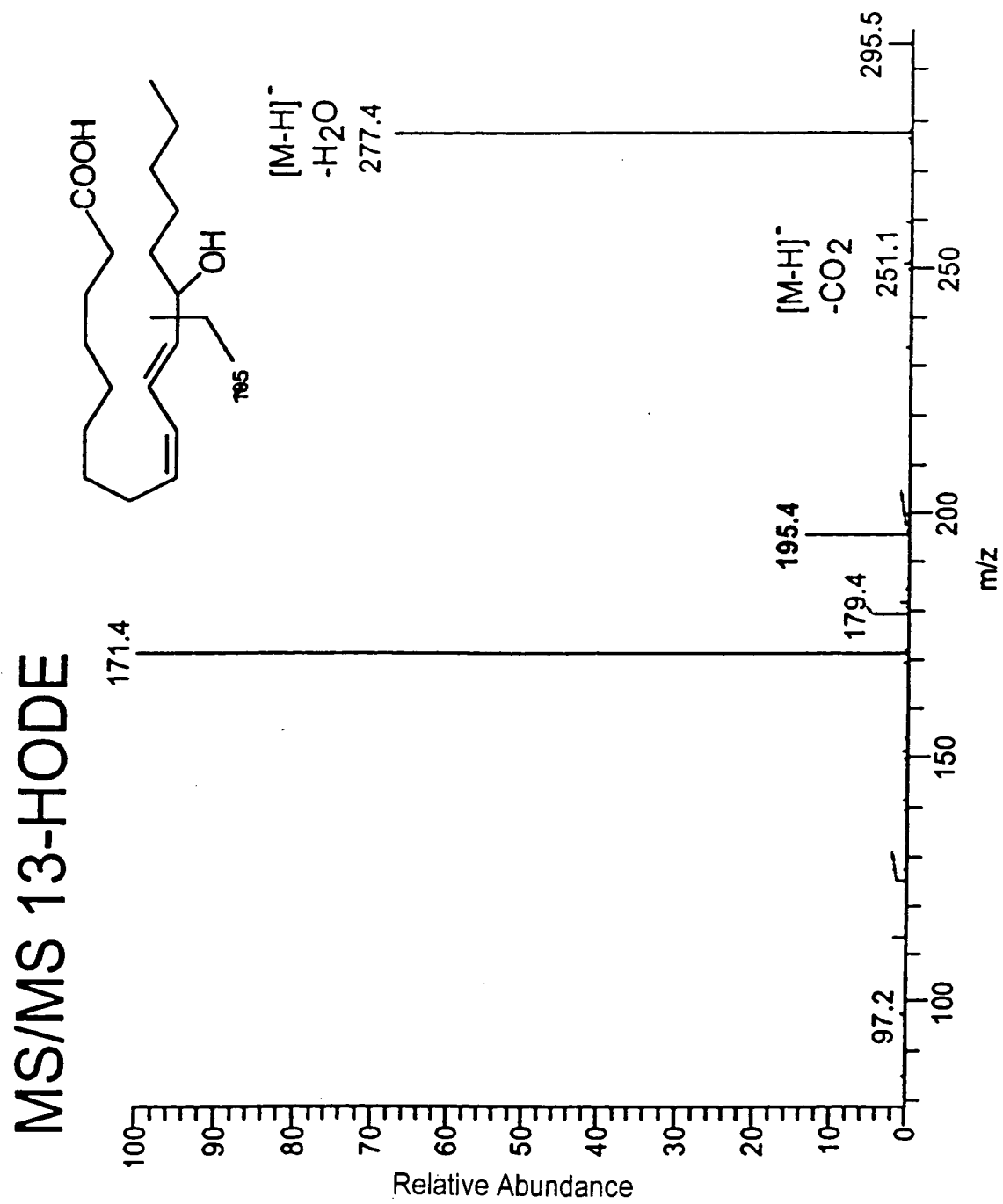


FIG. 10L



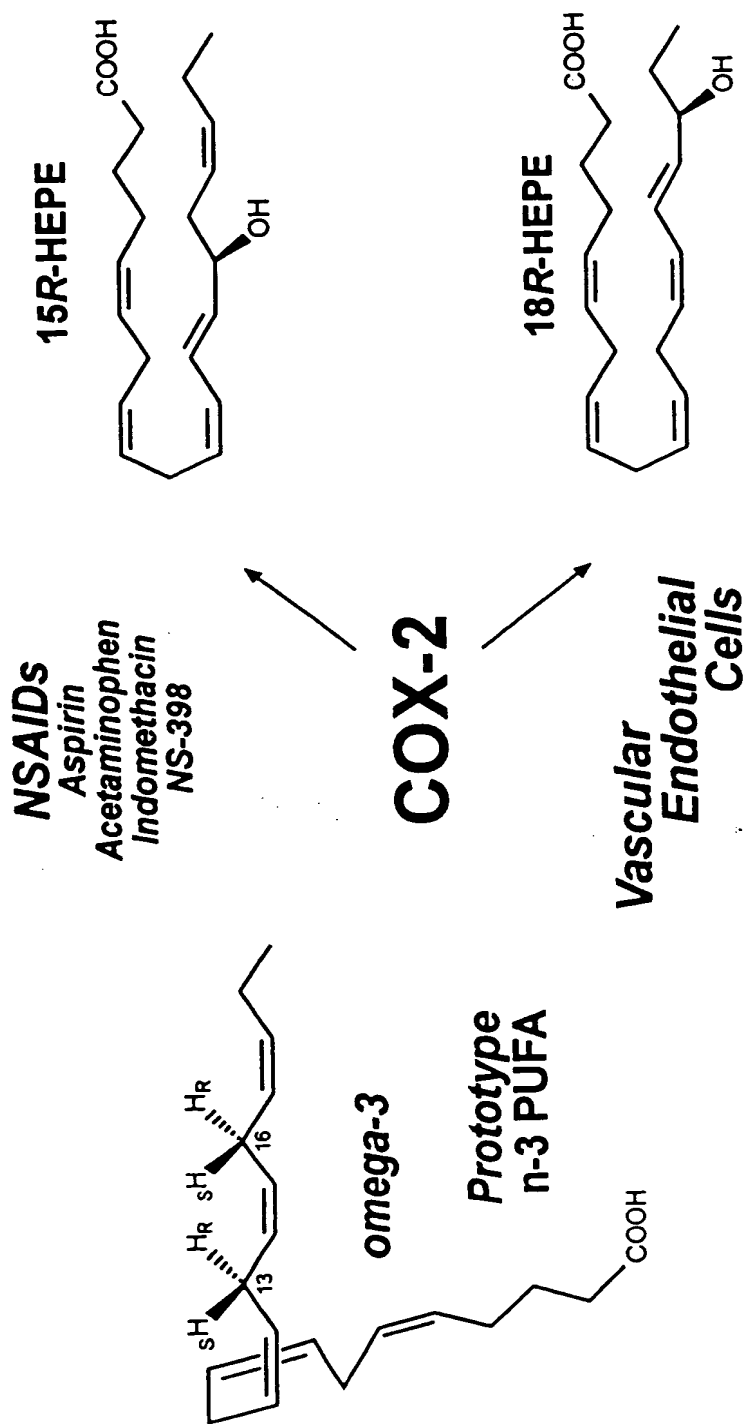


FIG. 11A

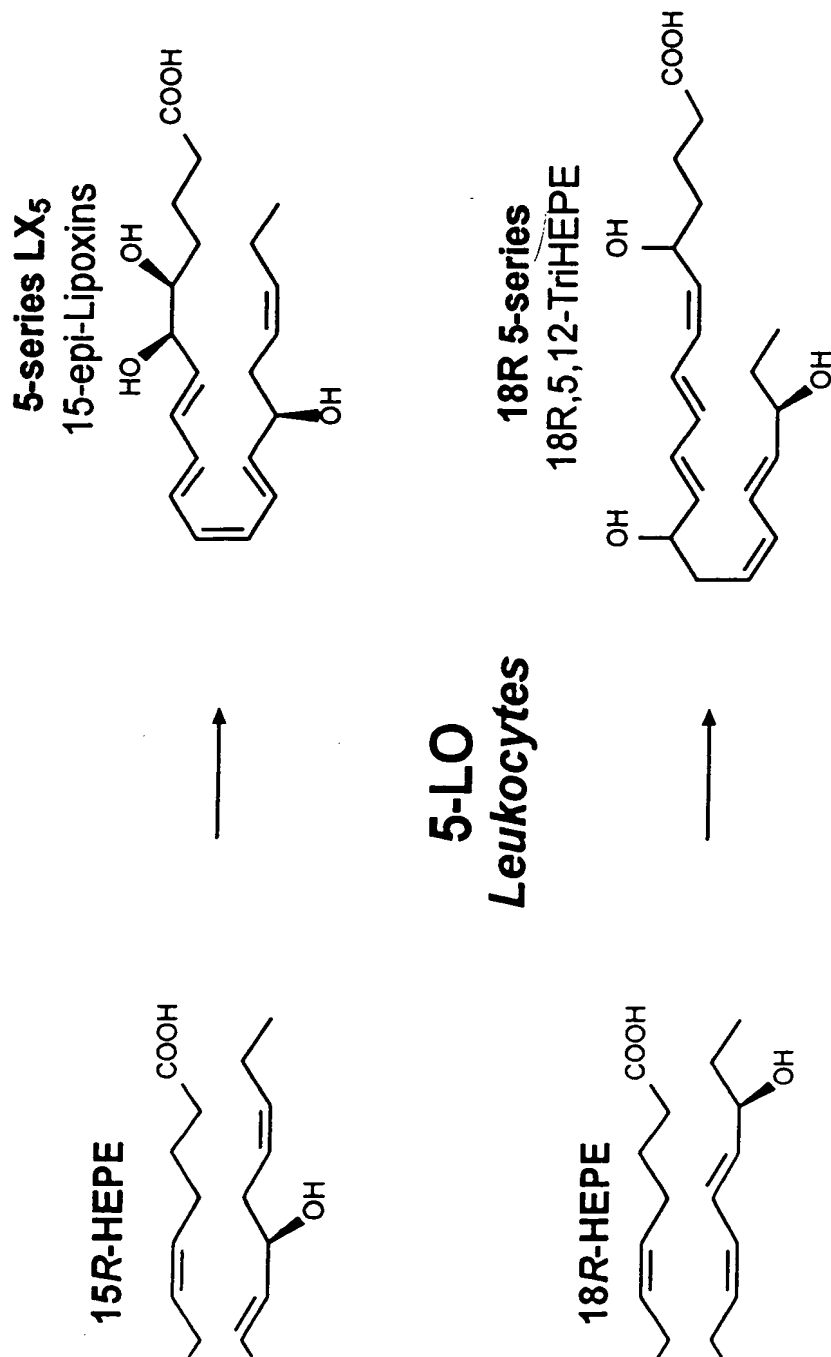


FIG. 11B



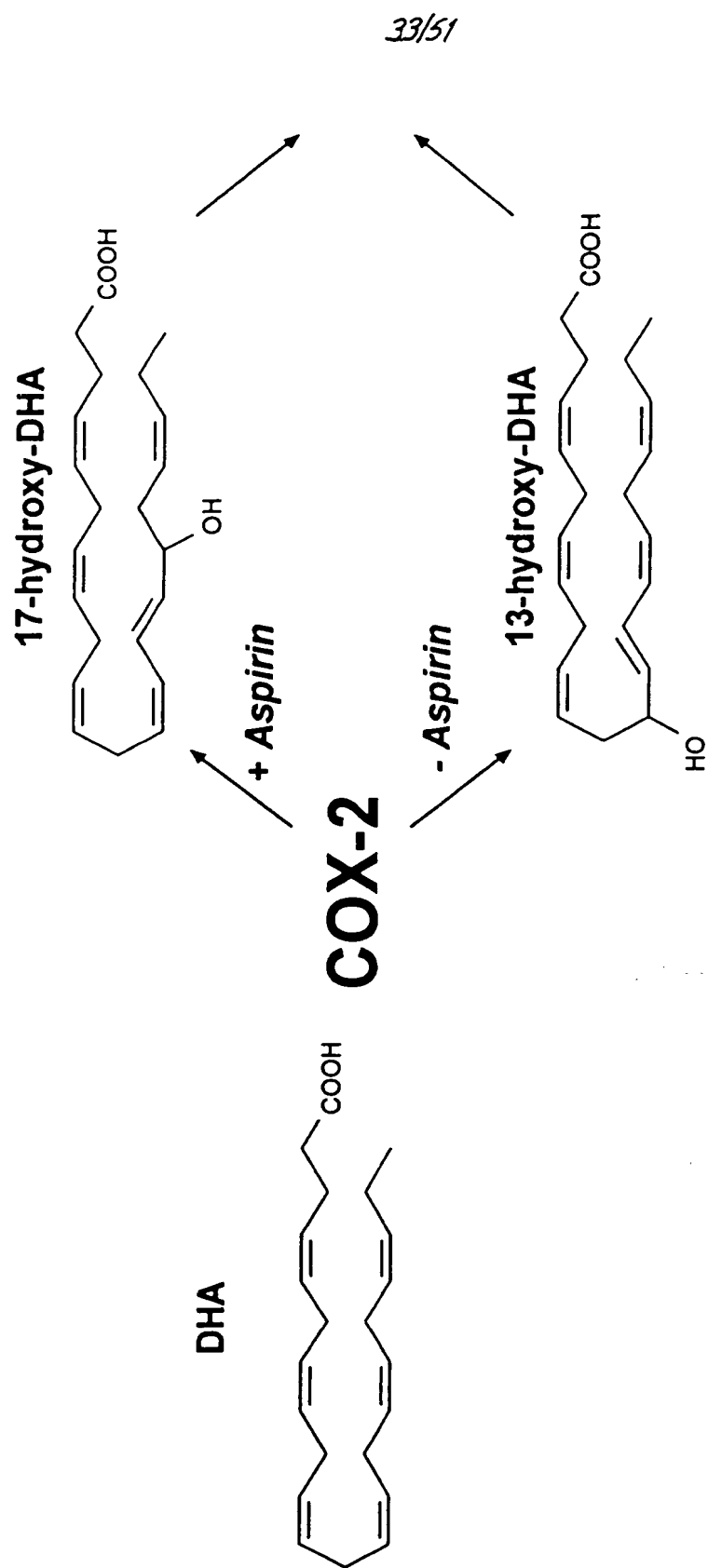
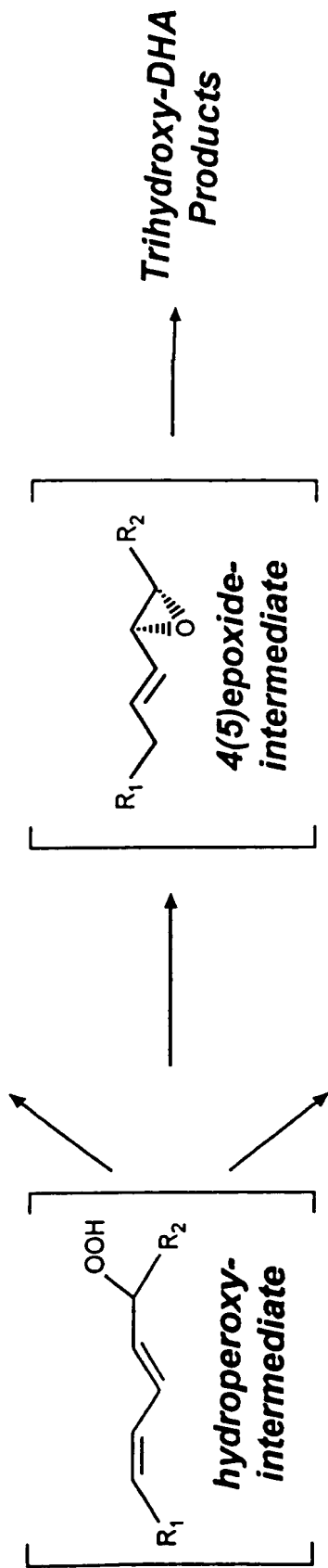


FIG. 11C

**4,17-dihydroxy-DHA**



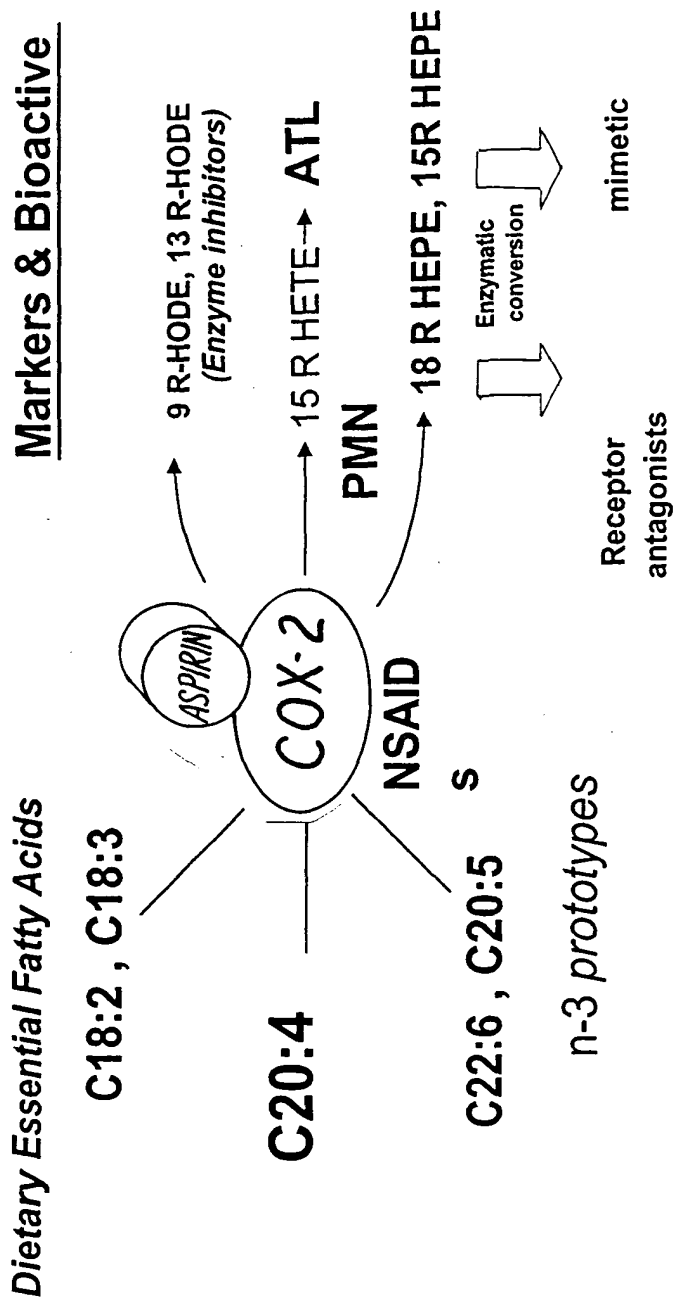
**4,13-dihydroxy-DHA**

**5-LO**  
*Leukocytes*

*FIG. 11D*

FIG. 12

# Aspirin Triggered / NSAIDs : New Pathways



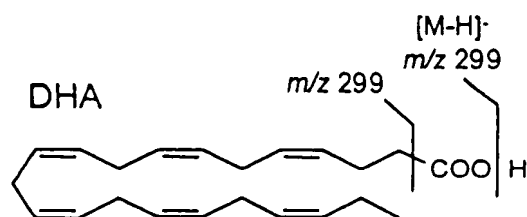
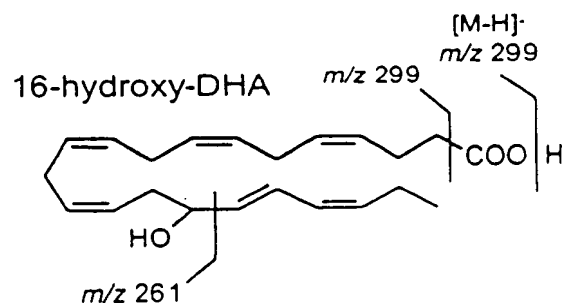
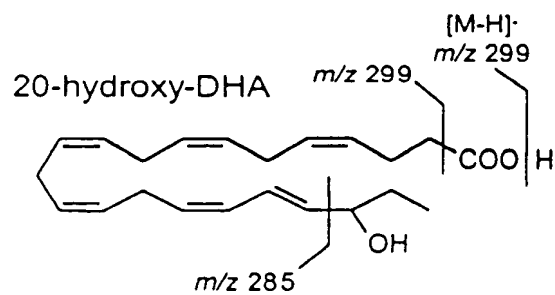
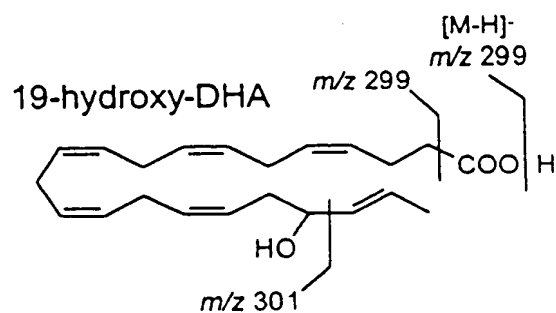
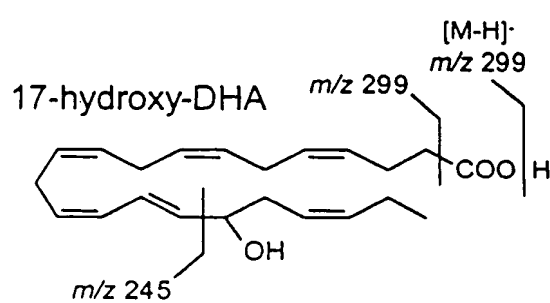
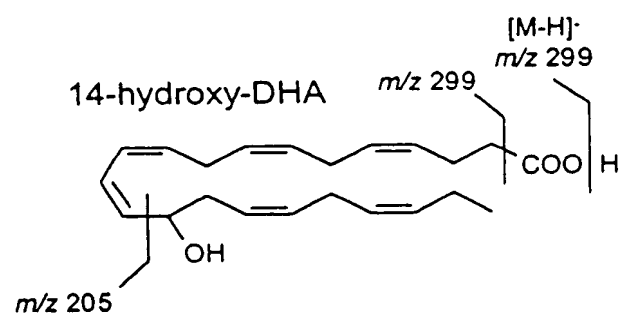
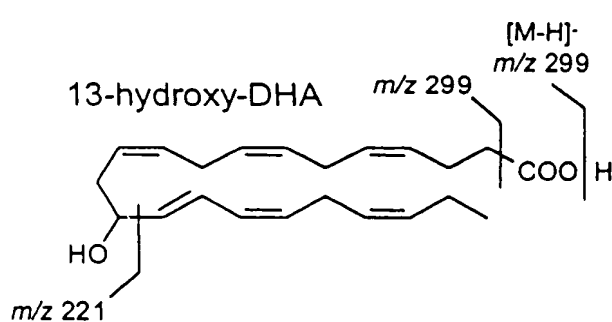


FIG. 13

## Major Products



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FIG. 14A

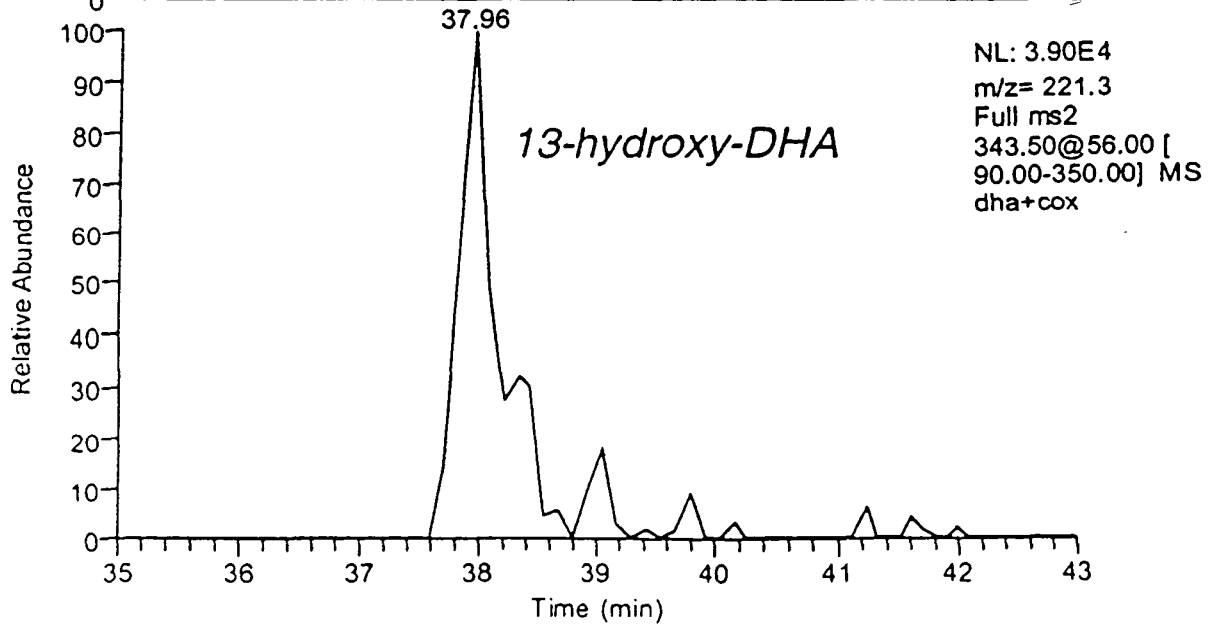
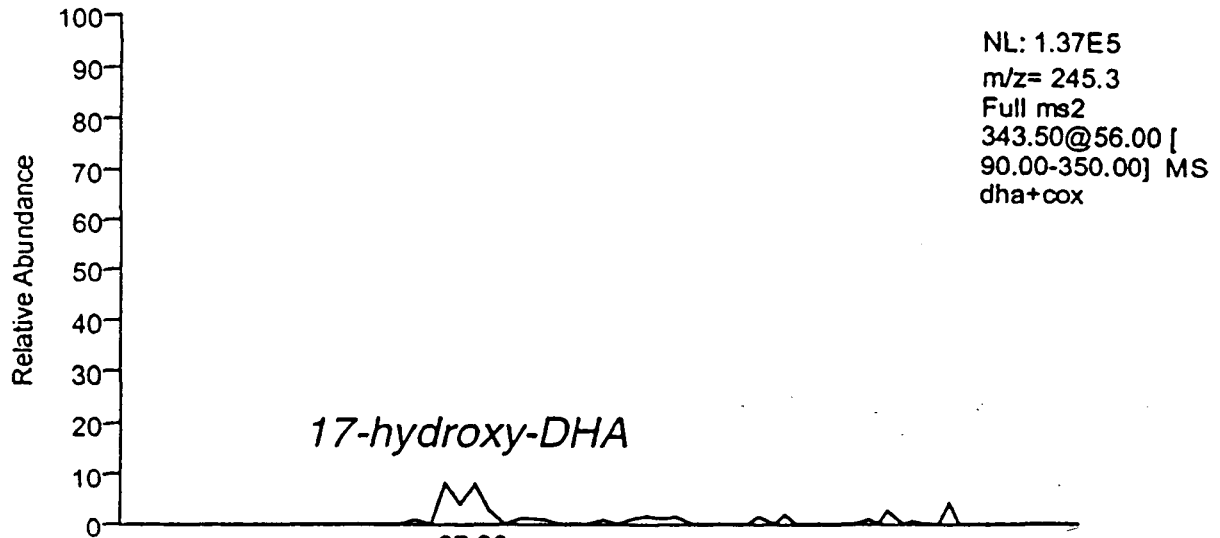
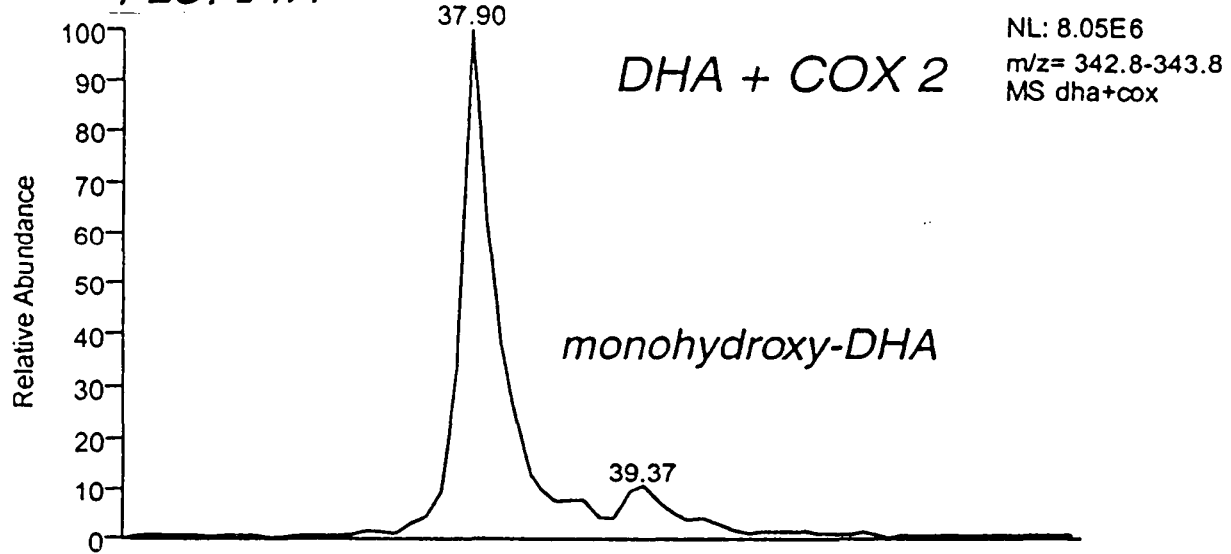
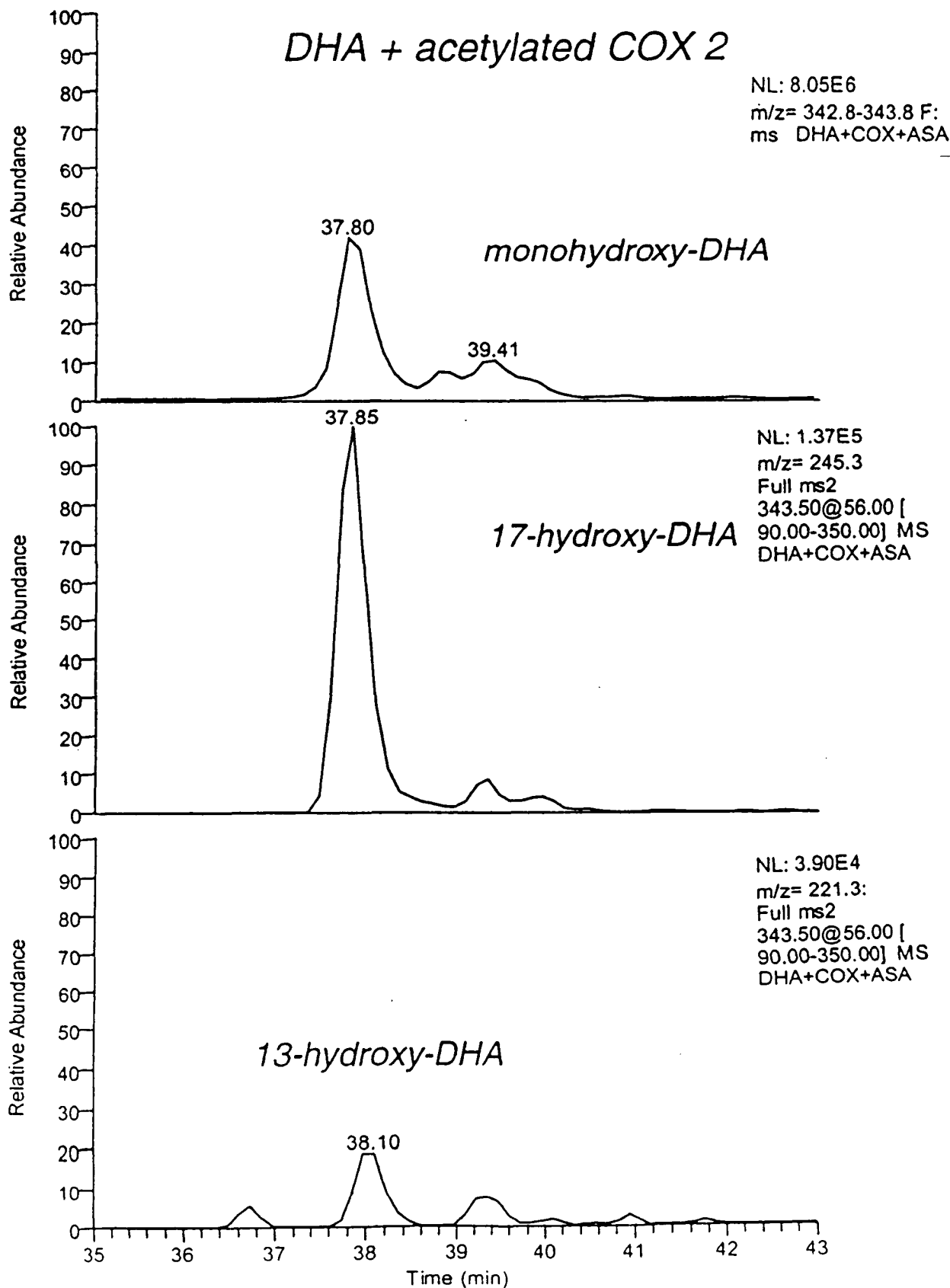


FIG. 14B

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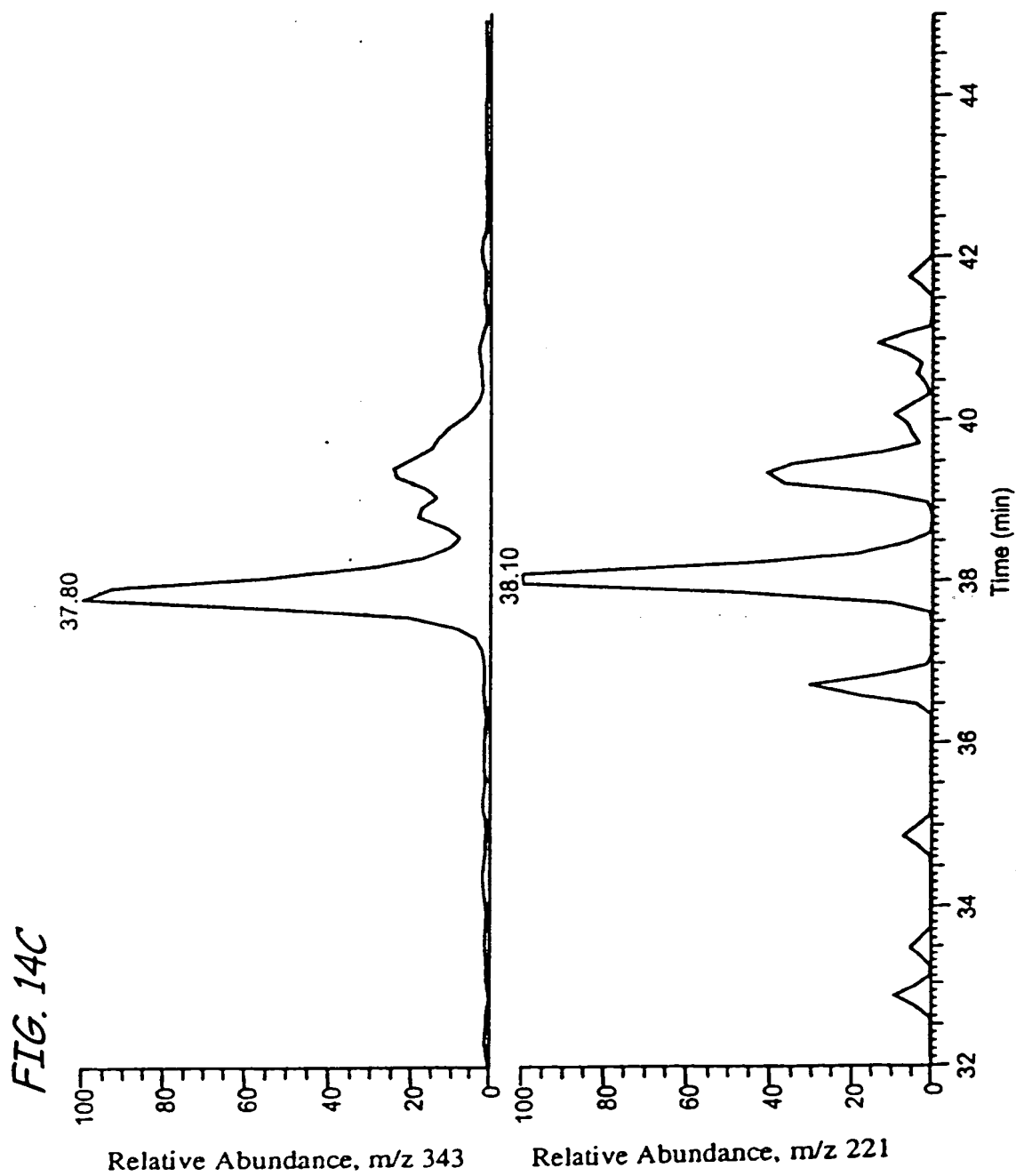
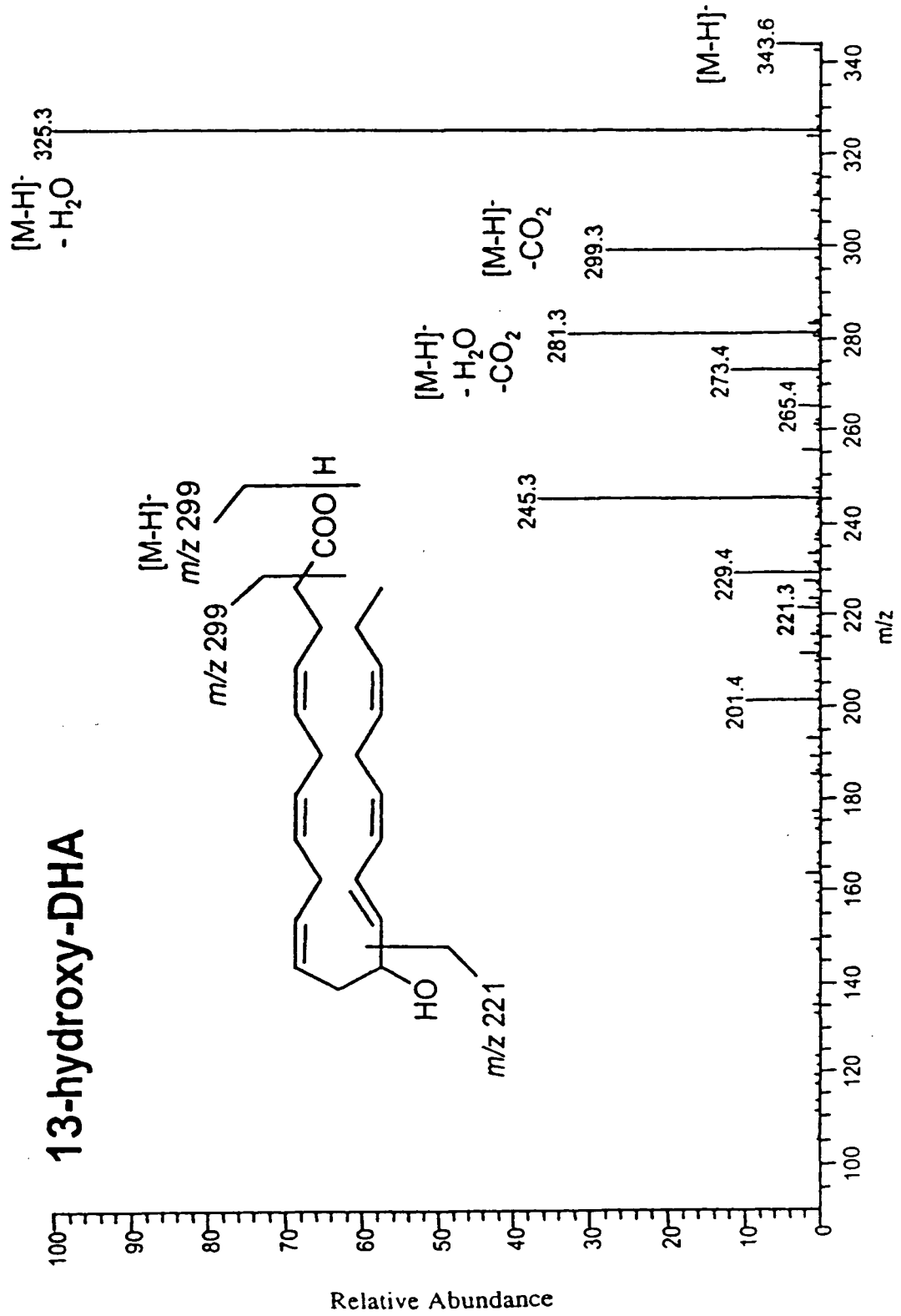
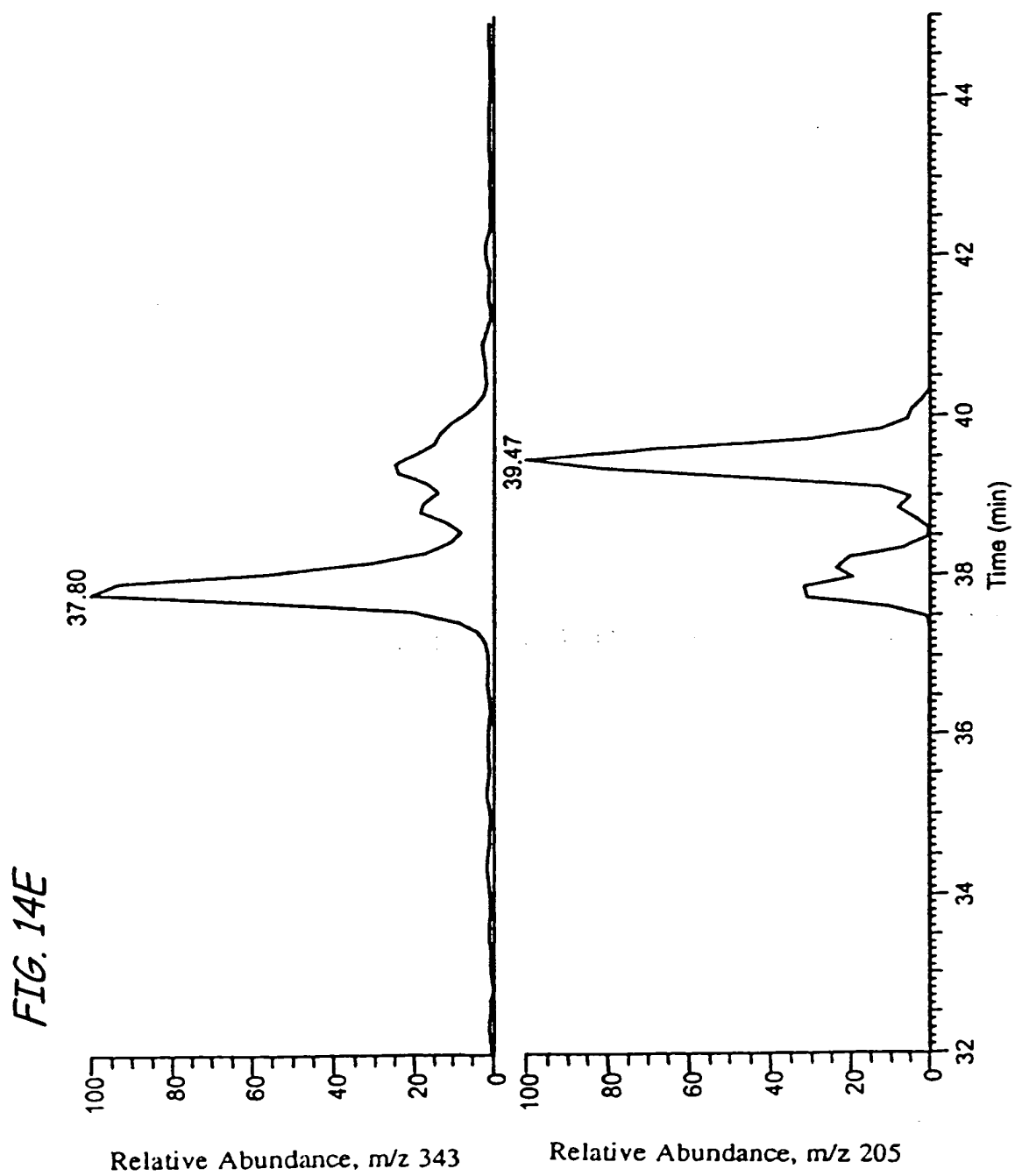


FIG. 14D







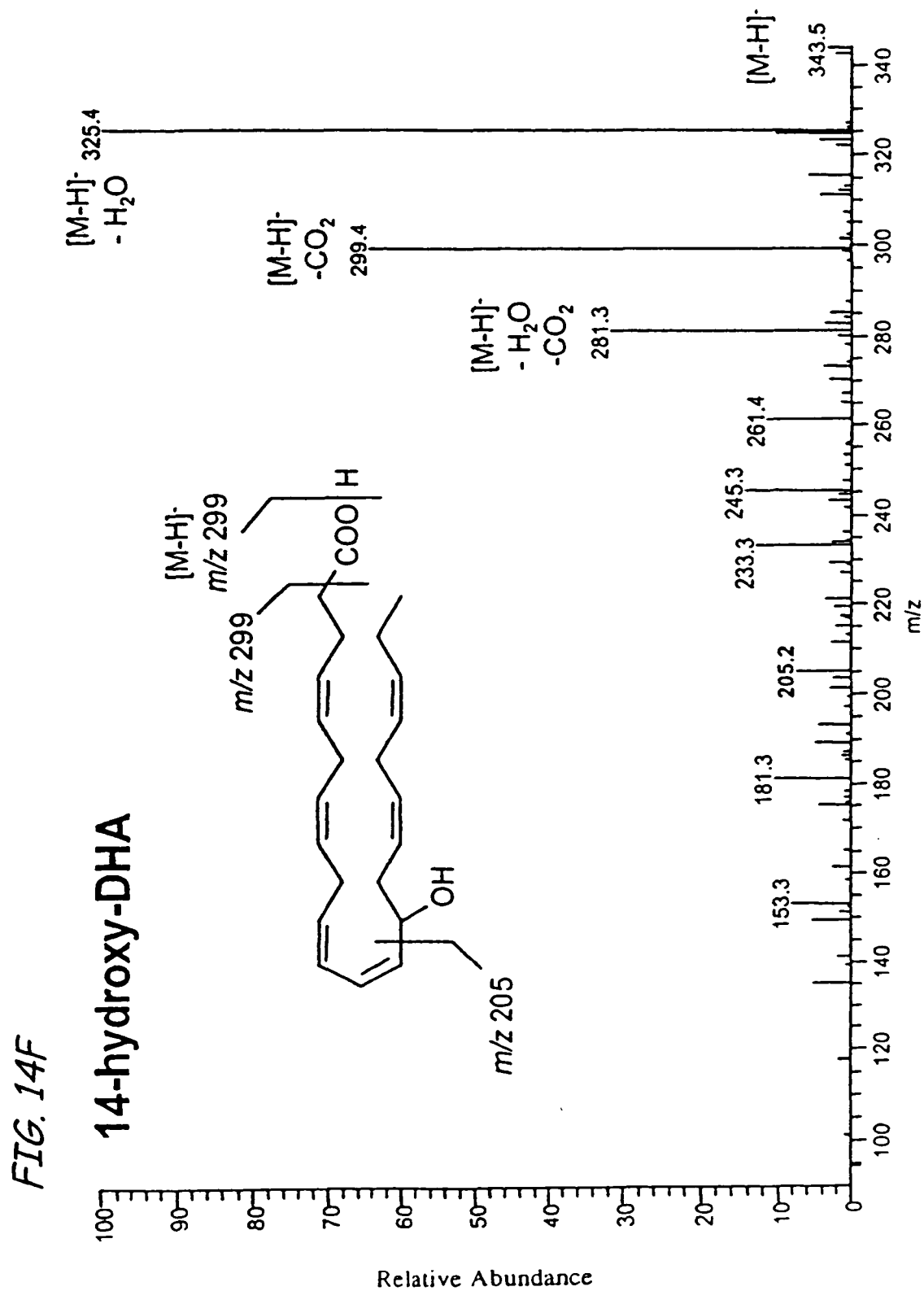


FIG. 14G

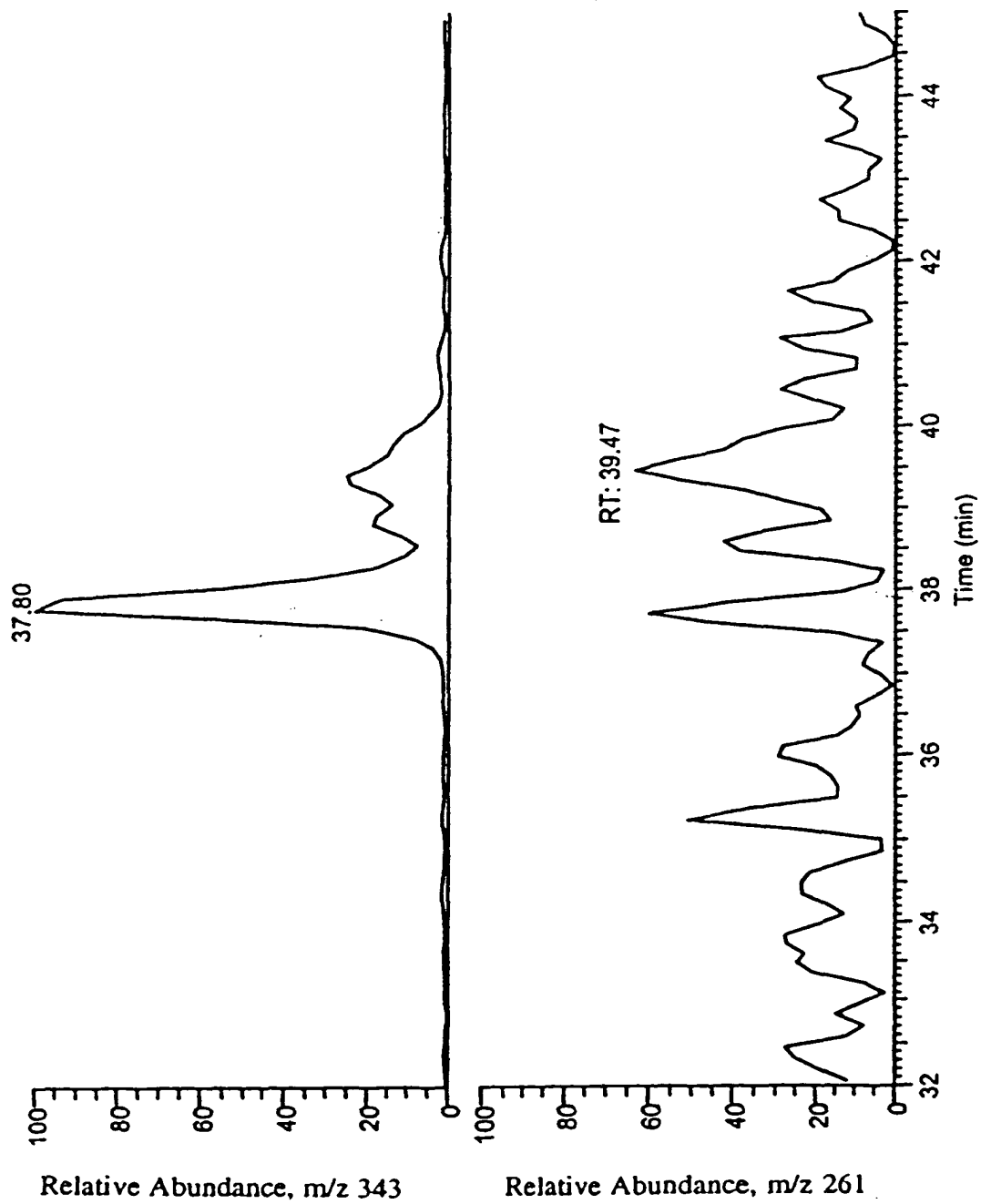


FIG. 14H

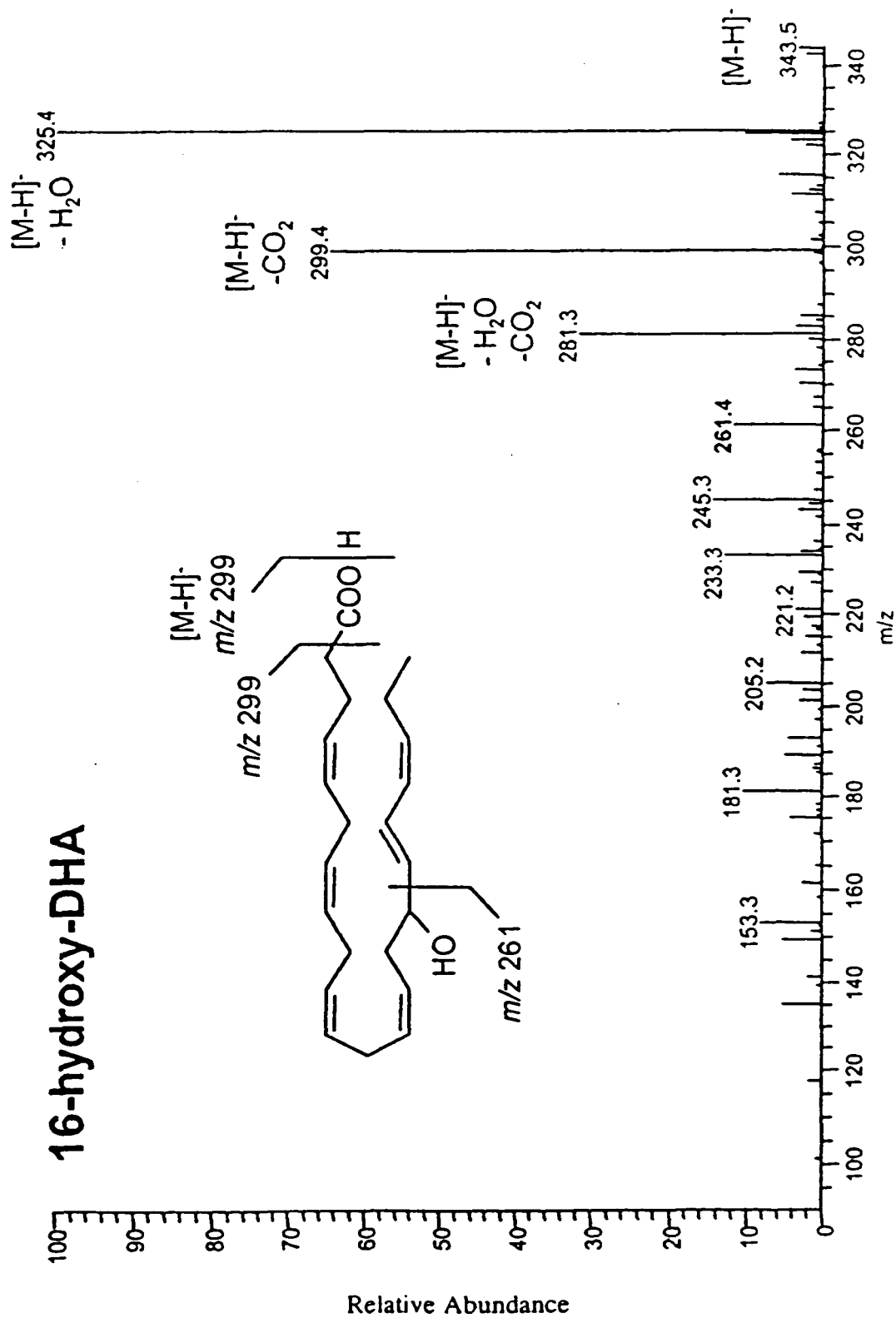


FIG. 14I

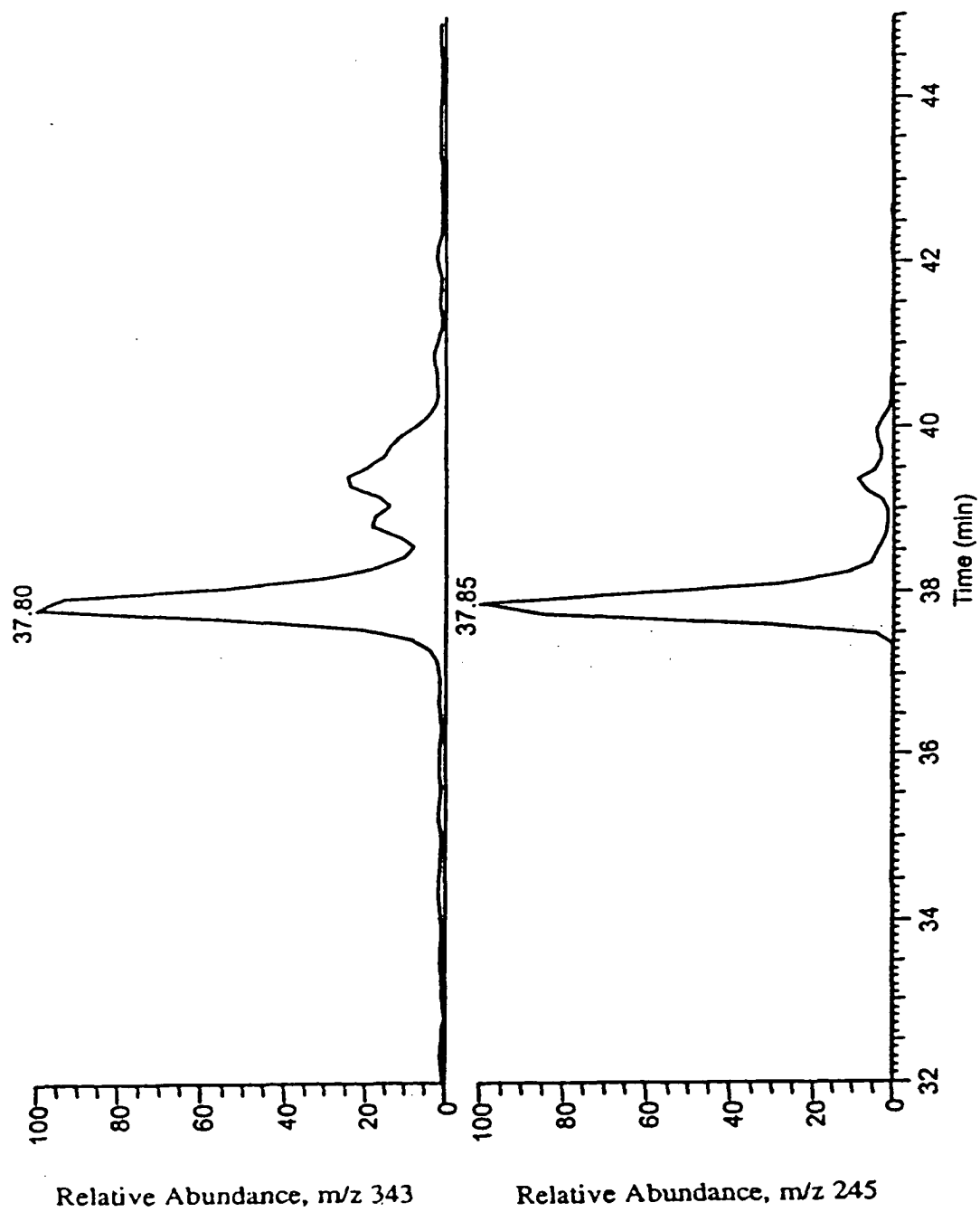


FIG. 14J

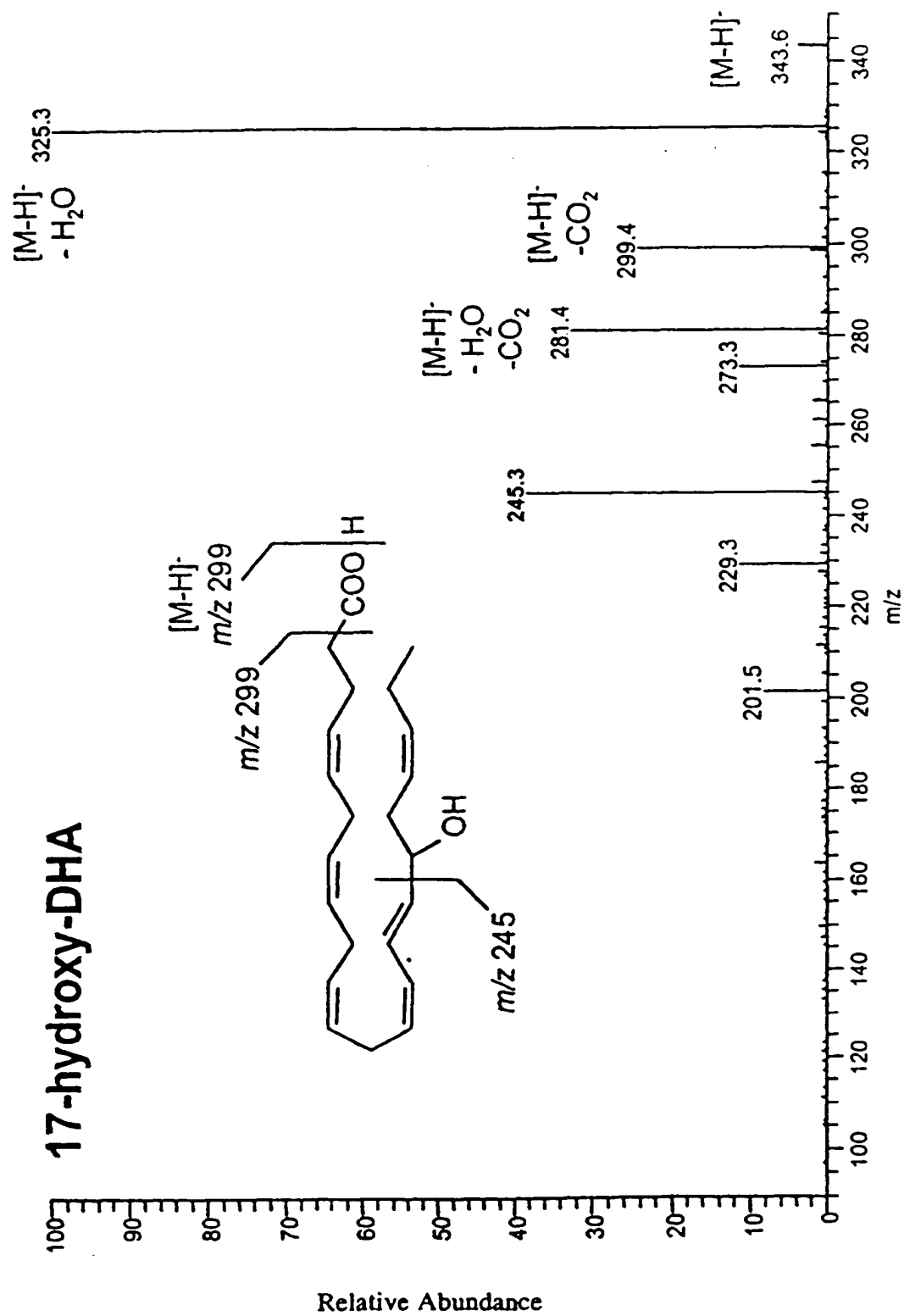


FIG. 14K

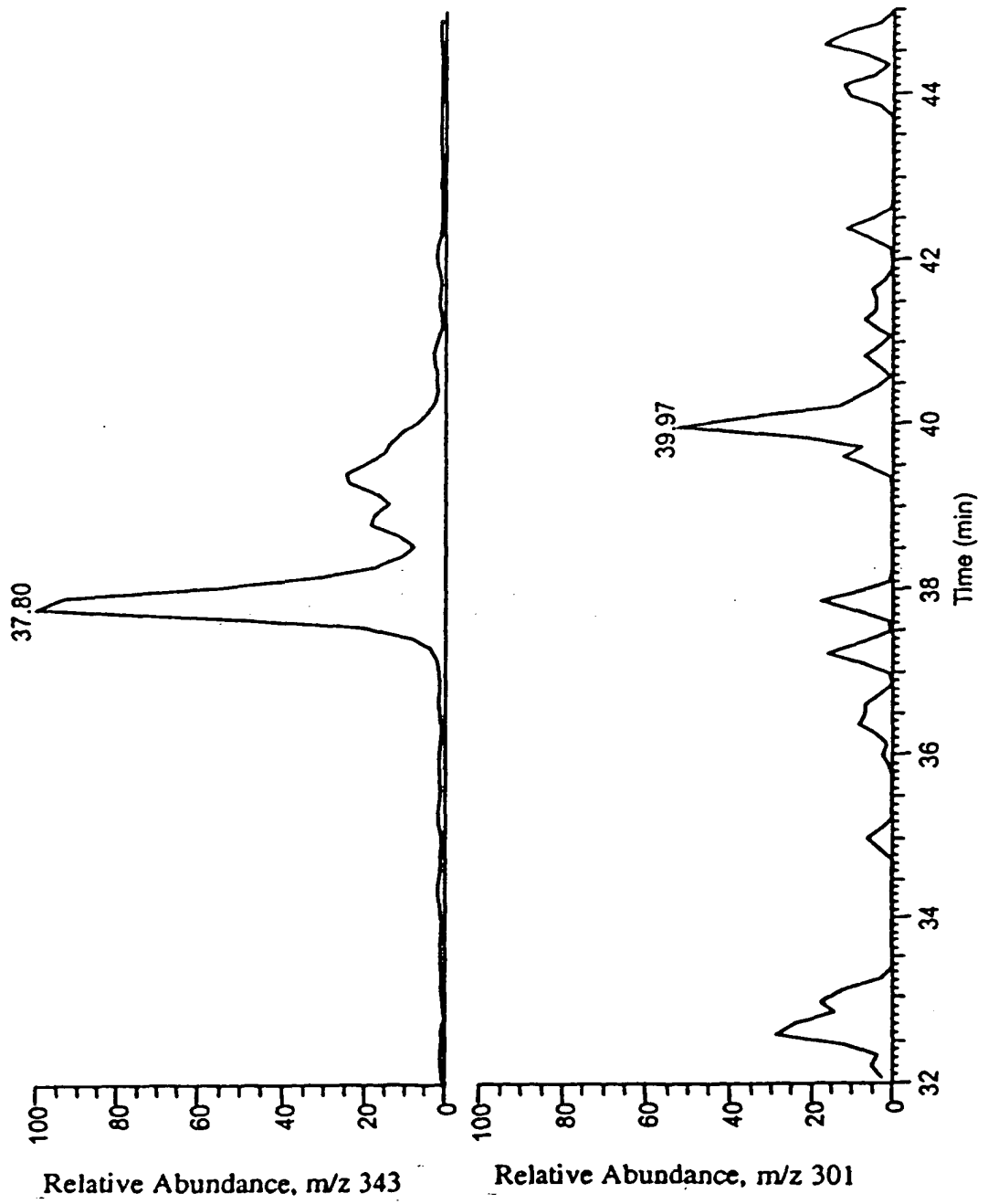


FIG. 14L

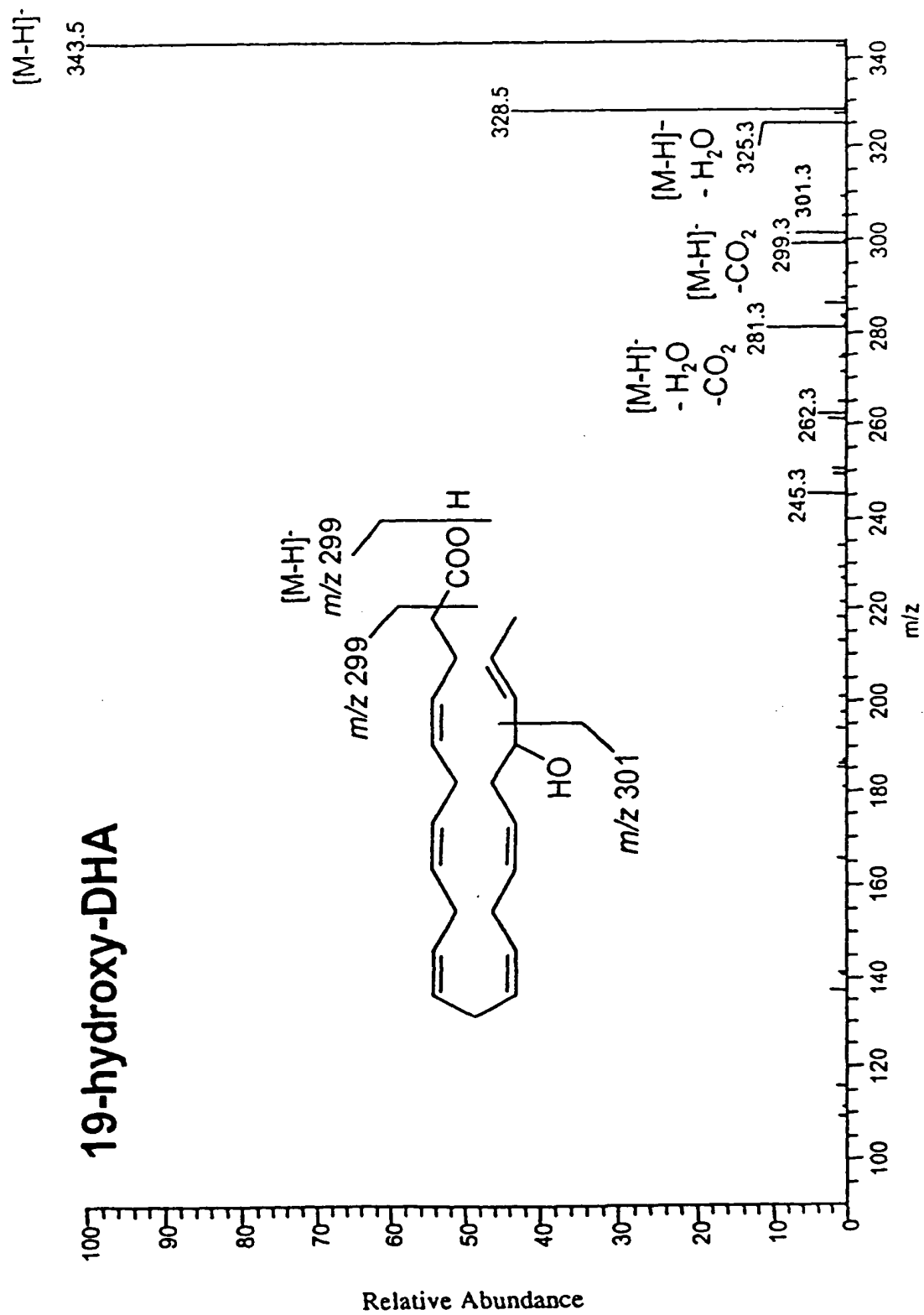




FIG. 14M

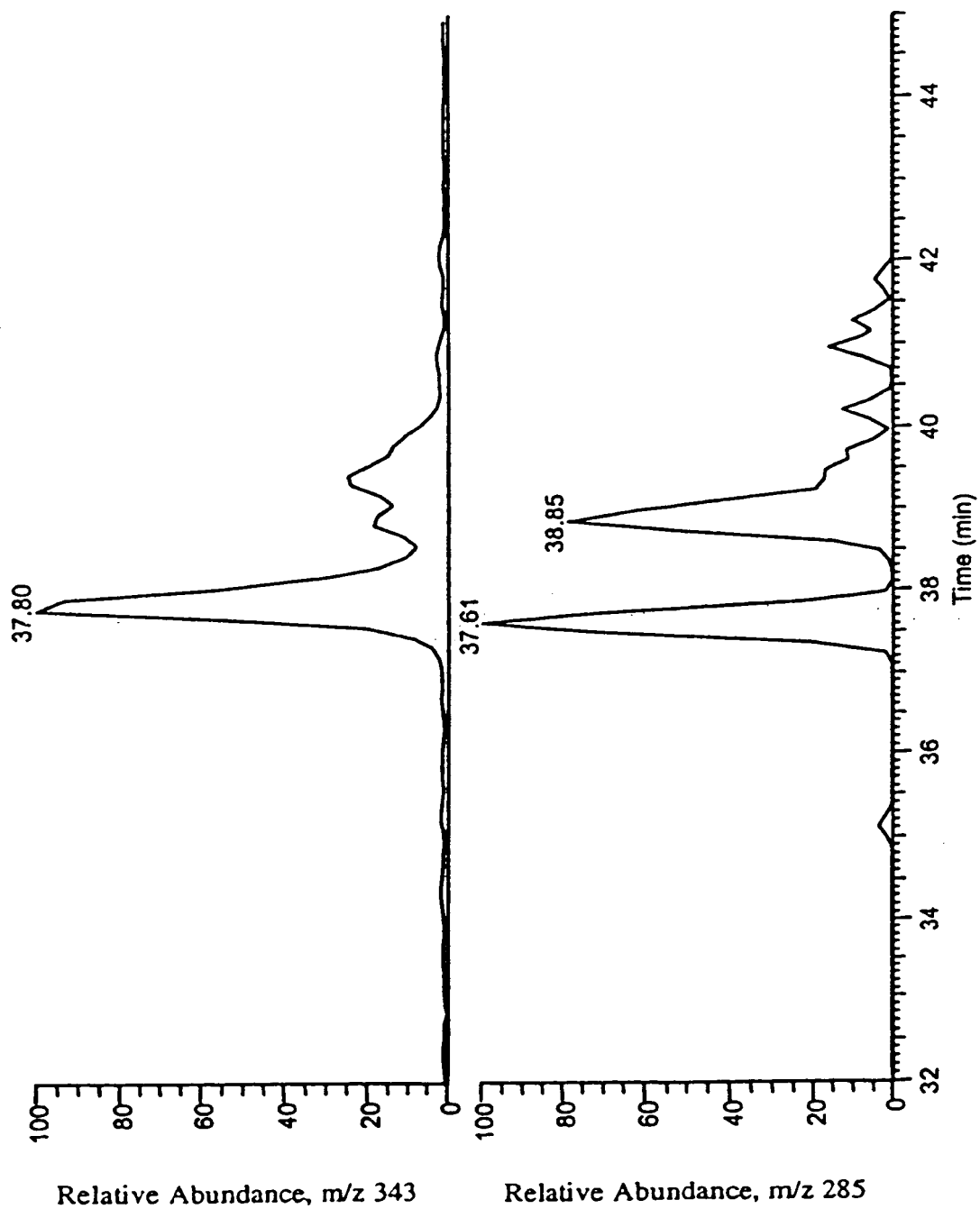


FIG. 14N

20-hydroxy-DHA

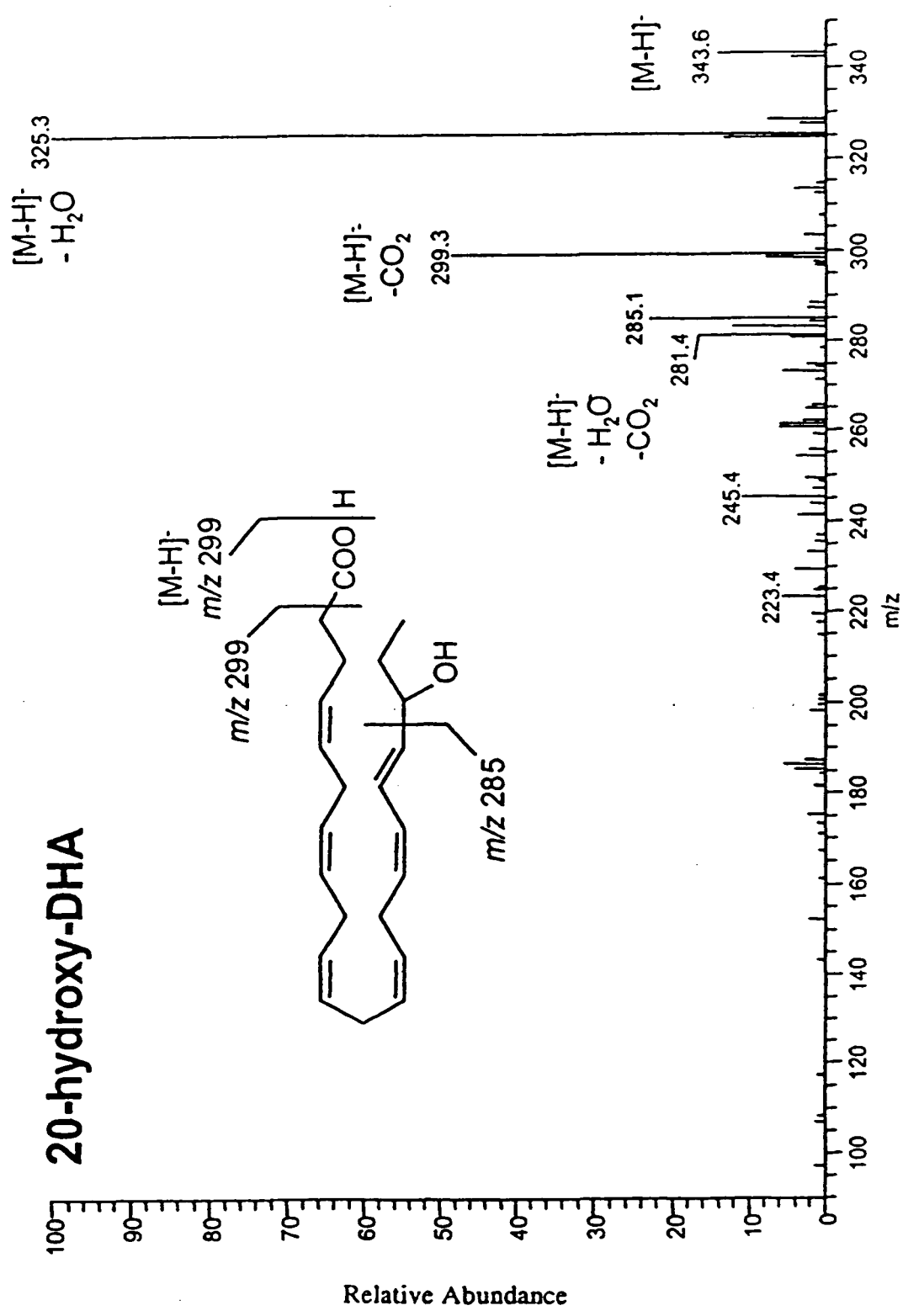


FIG. 15

# PUFA & ASA-COX-2

